

# **Swami Vivekanand College of Engineering**

(Approved by: AICTE, New Delhi • Affiliated to RGPV, Bhopal and DAVV, Indore • Recognised by: DTE Govt. of MP)

Campus: Khandwa Road, Indore-452020 (M.P.) Phone: +91-07324-405000

• Email: info@svceindore.ac.in • Website: www.svce.vivekanandgroup.com

#### **Declaration**

#### **Metric 1.3.2**

I declare that all the data, pictures, reports and other information enclosed in the metric are authentic to the best of my knowledge.

Criteria In-charge

Dr. Megha Soni



# **Swami Vivekanand College of Engineering**

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The Major Project Report title entitled "ASSIGNMENT SUBMISSION SYSTEM PROJECT" being submitted by Ayush Gour(0822CS181016), Pushpak Gangle(0822CS181057), Anupam Chouhan(0822CS181012), Aishwriya Dharkar(0822CS181005) has been examined by us and is hereby approved for the award of degree "Bachelor of Technology in Computer Science And Engineering", for which it has been submitted. It is understood that by this approval that the undersigned do not necessarily endorse or approve any statement made, opinion expressed or conclusion drawn therein, but approve the dissertation only for the purpose for which it has been submitted.

(Internal Examiner)

Date:

(External Examiner)
Date:04/05/2022





The Major Project Report title entitled "GROCERY E-SHOP" being submitted by ANAND MATHE (0822CS181008), BHARTI PATIDAR (0822CS181017), DIVYANSH NAMDEV (0822CS181023), ANKIT KUMAR GUPTA (0822CS181010), has been examined by us and is hereby approved for the award of degree "Bachelor of Engineering (Computer Science and Engineering.)", for which it has been submitted. It is understood that by this approval that the undersigned do not necessarily endorse or approve any statement made, opinion expressed or conclusion drawn therein, but approve the dissertation only for the purpose for which it has been submitted.

(Internal Examiner)

Date:

(External Examiner)

Date: 04/05/2022



The Major Project Report title entitled "New App" being submitted by Chirag Gupta (0822CS181020), Mahima Jonoriya (0822CS181036), Abhijeet Sahu (0822CS181002) has been examined by us and is hereby approved for the award of degree "Bachelor of Engineering (Computer Science)", for which it has been submitted. It is understood that by this approval that the undersigned does not necessarily endorse or approve any statement made, opinion expressed, approves the dissertation only for the purpose for which it has or conclusion drawn therein been submitted.

(Internal Examiner)

Date:

(External Examiner)

Date: 4/1/2



The Major Project Report title entitled "STOCK ANALYSIS" being submitted by Sawan Modi (0822CS181068), Yuvraj Singh Babel (0822CS181082), has been examined by us and is hereby approved for the award of degree "Bachelor of Engineering (Computer Science & Engineering)", for which it has been submitted. It is understood that by this approval that the undersigned do not necessarily endorse or approve any statement made, opinion expressed or conclusion drawn therein, but approve the dissertation only for the purpose for which it has been submitted.

(Internal Examiner)

Date:

(External Examiner)

Date: 4/1 2



2



The Major Project Report title entitled "Co-meet" being submitted by Mudit Tiwari (0822CS181043), Nimit Bhawsar (0822CS181050). Kritik More (0822CS181035), and Neeraj Jaat (0822CS18146) has been examined by us and hereby approved for the award of degree "Bachelor of Engineering (Computer Science)", for which it has been submitted. It is understood that by this approval that the undersigned does not necessarily endorse or approve any statement made, opinion expressed, or conclusion drawn therein but approves the dissertation only for the purpose for which it has been submitted.

(Internal Examiner)

Date:

(External Examiner)

Date: \$ 4/2 L



The Major Project Report title entitled "Android News Application" being (0822CS181073), Shubham Urvashi **Patidar** Pal submitted by (0822CS181074), Rashmi Goval (0822CS181079), Patidar Sneha (0822CS181061)has been examined by us and is hereby approved for the award of degree "Bachelor of Engineering (Computer Science & Engineering)", for which it has been submitted. It is understood that by this approval that the undersigned do not necessarily endorse or approve any statement made, opinion expressed or conclusion drawn therein, but approve the dissertation only for the purpose for which it has been submitted.

(Internal Examiner)

Date:

(External Examiner)





The Major Project Report title entitled "Well Style Home" being submitted by Meghna Baviskar (0822CS181042) and Nandini Mali (0822CS181044) has been examined by us and is hereby approved for the award of degree "Bachelor of Engineering" Computer Science and Engineering, for which it has been submitted. It is understood that by this approval that the undersigned do not any statement made, opinion expressed, or conclusion drawn necessarily endorse or aponly for the purpose for which it has been submitted. therein, but approve the d

(Internal Examiner)

Date:

(External Examiner)



The Major Project Report title entitled "House Rental Management System" being submitted by Yashraj Dighe (0822CS181081) has been examined by us and is hereby approved for the award of degree "Bachelor of Engineering (Computer Science)", for which it has been submitted. It is understood that by this approval that the undersigned do not necessarily endorse or approve any statement made, opinion expressed or conclusion drawn therein, but approve the dissertation only for the purpose for which it has been submitted.

(Internal Examiner)





The Major Project Report title entitled "Apartment bazaar" being submitted by shubham dudhe, (0822cs181072),pawan (0822cs181052), patidar chohan(0822cs181062),ramendra ravi patriya(0822cs181060) has been examined by us and is hereby approved for the award of degree "Bachelor of Engineering (Computer and science)", for which it has been submitted. It is understood that by this approval that the undersigned do not necessarily endorse or approve any statement made, opinion expressed or conclusion drawn therein, but approve the dissertation only for the purpose for which it has been submitted.

(Internal Examiner)

Date:

(External Examiner)





The Major Project Report title entitled "Smart Contact Manager" being submitted by Ashwin Krishna (0822CS181015), Abhishek Patel (0822CS181002), Deepak Yadav (0822CS181021)has been examined by us and is hereby approved for the award of degree "Bachelor of Engineering (Computer Science)", for which has been submitted. It is understood that by this approval that the undersigned does not necessarily endorse or approve any statement made, opinion expressed, or conclusion drawn therein but approves the dissertation only for the purpose for which it has been submitted.

(Internal Examiner)



The Major Project Report title entitled "Well Style Home" being submitted by Meghna Baviskar (0822CS181042) and Nandini Mali (0822CS181044) has been examined by us and is hereby approved for the award of degree "Bachelor of Engineering" Computer Science and Engineering, for which it has been submitted. It is understood that by this approval that the undersigned do not statement made, opinion expressed, or conclusion drawn necessarily endorse or appre therein, but approve the disse, and only for the purpose for which it has been submitted.

(Internal Examiner)

Date:

(External Examiner)
Date: 4/5/24





The Major Project Report title entitled "PRODUCT REVIEW SYSTEM USING WEB SCRAPPING" being submitted by ANSH GARG (0822CS181011) has been examined by us and is hereby approved for the award of degree "Bachelor of Engineering (Computer Science)", for which it has been submitted. It is understood that by this approval that the undersigned do not necessarily endorse or approve any statement made, opinion expressed or conclusion drawn therein, but approve the dissertation only for the purpose for which it has been submitted.

(Internal Examiner)

Date:

(External Examiner)





The Major Project Report title entitled "RW RAIN REMINDER" being submitted by Sharma (0822CS181007), has been examined by us and is hereby approved for the award of degree "Bachelor of Engineering (Computer Science & Engineering)", for which it has been submitted. It is understood that by this approval that the undersigned do not necessarily endorse or approve any statement made, opinion expresses or conclusion drawn therein, but approve the dissertation only for the purpose for which it has been submitted.

(Internal Examiner)

Date:

(External Y) IL
Examiner)
Date: Y I IL

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# WEATHER FORECAST



A minor project submitted to Rajiv Gandhi Proudyogiki Vishwavidhyalaya, Bhopal (M.P.) towards partial fulfillment for the award of the degree of

#### BACHELOR OF TECHNOLOGY In COMPUTER SCIENCE AND ENGINEERING

#### **Guided By**

Ms. Rekha Yadav Asst. Prof. CSE Department

#### Submitted By

Shravan Goud [0822CS201101] Rohan Jagdale [0822IT201045] Vikas Badwaya [0822CS201118] Yash Sitole [0822CS201125]

Department of Computer Science and Engineering Swami Vivekanand College of Engineering, Indore(M.P) 2022-2023



# CERTIFICATE



submitted to "Rajiv Gandhi Proudyogiki Vishwavidhyalaya Bhopal" by Shravan Goud, Rohan Jagdale, Vikas Badwaya and Yash Sitole is a partial fulfillment of the This is to certify that the Minor Project Report entitled "WEATHER FORECAST" requirement for the award of the degree in B. Tech with specialization in Department of Computer Science Engineering.

Shravan Goud
[0822CS201101]
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[0822IT201045]
Vikas Badwaya
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15

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HOD, CSE SVCE, Indore

Guide, CSE SVCE, Indore

SME Dr. Pradeep Patil

Principal SVCE, Indore

# <u>ACKNOWLEDGEMENT</u>

I am thankful to the technical university Rajiv Gandhi Proudyogiki Vishwavidyalaya, Bhopal for giving me opportunity to convert my theoretical knowledge into the practical

Any work of this magnitude requires input, efforts and encouragement of people from all sides. In compiling this project, I have been fortunate enough to get active and kindcooperation from many people without which my endeavors wouldn't have been a success.

The project work has been made successful by the cumbersome effort of the faculties.

I would like to express gratitude to my guide Ms. Rekha Yadav under whose valuable guidance. for encouraging me regularly and explain me each and every concept, I was able to execute my

I express my profound gratitude to Dr. Pradeep Patil , Principal, Swami Vivekanand College of Engineering, Indore (M.P.), for making me confident about the research platform and helping me a lot in research work implementation.

I give special thanks to Mr. Ashish Tiwari, Computer Science and Engineering department for their willingness to help me in finding solutions to any problems I had with my work.

I am thankful to all teaching and Non-teaching staff of the Computer science and Engineering Department for their timely help and co-operation for their continuous support and encouragement in success of this project.

Place: SVCE, Indore



#### **ABSTRACT**

The project titled "WEATHER FORCAST". Weather Forecasting is the attempt by meteorologists to predict the weather condition at some future time and the weather conditions that may be expected. The climate condition parameters are based on the temperature, wind, humidity, rainfall and size of data set.

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# THE HIRING STUDIOS



A Minor Project Report Submitted to
Rajiv Gandhi Proudyogiki Vishwavidhyalaya, Bhopal (M.P.)
towards partial fulfillment for the award of the degree of

### **BACHELOR OF TECHNOLOGY**

In

## COMPUTER SCIENCE AND ENGINEERING

#### Guided by

Ms. Amisha Jain Asst. Prof. CSE Department

#### Submitted By

Ojas Kunte [0822CS201068] Diksha Gajbhiye (0822CS213D04)

Department of Computer Science and Engineering Swami Vivekanand College of Engineering, Indore (M.P) 2022-2023



#### **CERTIFICATE**



This is to certify that the Minor Project Report entitled "THE HIRING STUDIOS" submitted to "Rajiv Gandhi Proudyogiki Vishwavidhyalaya; Bhopal" by Ojas Kunte and Diksha Gajbhiye" is a partial fulfillment of the requirement for the award of the degree in B. Tech with specialization in Computer Science.

Ojas Kunte (0822CS201068) Diksha Gajbhiye(0822CS213D04)

Ms. Amisha Jain

Guide, CSE SVCE, Indore Mr. Ashish Tiwari

HOD, CSE SVCE, Indore Dr. Pradeep Patil

Principal SVCE, Indore

#### **ACKNOWLEDGEMENT**

I am thankful to the technical university Rajiv Gandhi Proudyogiki Vishwavidyalaya, Bhopal for giving me opportunity to convert my theoretical knowledge into the practical skills through this project.

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I would like to express gratitude to my guide Ms. Amisha Jain under whose valuable guidance, for encouraging me regularly and explain me each and every concept, I was able to execute my project smoothly.

I express my profound gratitude to **Dr. Pradeep Patil**, Principal, Swami Vivekanand College of Engineering, Indore (M.P.), for making me confident about the research platform and helping me a lot in research work implementation.

I give special thanks to Mr. Ashish Tiwari, Computer Science and Engineering department for their willingness to help me in finding solutions to any problems I had with my work.

I am thankful to all teaching and Non-teaching staff of the Computer science and Engineering Department for their timely help and co-operation for their continuous support and encouragement in success of this project.

Place: SVCE, Indore

Date:

Ojas Kunte (0822CS201068) Diksha Gajbhiye(0822CS213D04)



#### **ABSTRACT**

The advancement of technology plays an important role in organizations functioning and overall development of India. As our country is a developing nation and it has set its mission to be digitalized in every arena, the organization also has started to use technology in their activities. Before the technological advancement, organization used various sources to recruit employees. Those sources are newspaper advertisement, campus recruiting, different job agencies and so on. Those sources are also recognized as traditional recruitment sources. But now along with those sources many other sources have been added to this list because of the technological development. Various job-related websites, recruitment via internet, E- mail, social media etc. are the sources which added with traditional recruitment which is known as e- recruitment. E-recruitment is a mode for selecting one of the companies' human resources through technological mean. According to technological acceptance model, the uses of online sources for job searching have been impressively increased. It is considered to be effective because it saves time, effort and moreover it can ensure that suitable person is hired for a particular position. So the main purpose of our study is to identify about how e-recruitment and internet is influencing the recruitment process of an organization.

The aim of this minor project is to design and develop a recruitment platform that facilitates the job search and application process for both job seekers and employers. The platform will provide a user-friendly interface for job seekers to create their profiles, search for job opportunities, and apply for them. Employers will be able to create job postings, search for potential candidates, and manage their applications. The platform will use modern technologies and frameworks to ensure scalability and reliability. The project will also incorporate features such as job recommendation algorithms, automated job alerts, and a messaging system for communication between job seekers and employers. The success of the project will be measured by the number of job seekers and employers using the platform, the number of successful job placements, and user feedback on the platform's ease of use and functionality.

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#### SOCIAL MEDIA WEBSITE



A Minor Project Report Submitted to
Rajiv Gandhi Proudyogiki Vishwavidhyalaya, Bhopal (M.P.)
towards partial fulfillment for the award of the degree of

#### **BACHELOR OF TECHNOLOGY**

In

#### COMPUTER SCIENCE AND ENGINEERING

#### **Guided By**

Ms.Akansha Dudey Asst. Prof. CSE Department

#### Submitted By

Ayush Sawle
[0822CS201001]
Kunal Mahajan
[0822CS201047]
Koushlesh Yadav
[0822CS201045]
Ghabanshu Wakode
[0822CS201024]

Department of Computer Science and Engineering Swami Vivekanand College of Engineering, Indore (M.P) 2022-2023

#### <u>CERTIFICATE</u>



This is to certify that the Minor Project Report entitled "Social Media Website" submitted to "Rajiv Gandhi Proudyogiki Vishwavidhyalaya; Bhopal" by Ayush Sawle, Kunal Mahajan, Koushlesh Yadav, Ghabhanshu Wakode is a partial fulfillment of the requirement for the award of the degree in B.Tech with specialization in Computer Science.

Ayush Swale(0822CS201001) Kunal Mahajan(0822CS201047) Koushlesh Yadav(0822CS201045) Ghabhanshu Wakode(0822CS201024)

Ms.Akansha Dudey

Daulusha

Guide, CSE SVCE, Indore Mr. Ashish Tiwari

HOD, CSE SVCE, Indore Dr. Pradeep Patil

Principal SVCE, Indore



The Minor Project Report title entitled "Social Media Website" being submitted by Ayush Sawle(0822CS201001), Kunal Mahajan(0822CS201047) Koushlesh Yadav(0822CS201045), Ghabhanshu Wakode(0822CS201024) has been examined by us and is hereby approved for the award of degree "Bachelor of Technology (Computer Science & Engineering)", for which it has been submitted. It is understood that by this approval that the undersigned do not necessarily endorse or approve any statement made, opinion expressed or conclusion drawn therein, but approve the dissertation only for the purpose for which it has been submitted.

(Internal Examiner)

Date: 24/04/23

(External Examiner)



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I would like to express gratitude to my guide Ms.Akansha Dudey under whose valuable guidance, for encouraging me regularly and explain me each and every concept, I was able to execute my project smoothly.

I express my profound gratitude to Dr. Pradeep Patil, Principal, Swami Vivekanand College of Engineering, Indore (M.P.), for making me confident about the research platform and helping me a lot in research work implementation.

I give special thanks to Mr. Ashish Tiwari, Computer Science and Engineering department for their willingness to help me in finding solutions to any problems I had with my work.

I am thankful to all teaching and Non-teaching staff of the Computer science and Engineering Department for their timely help and co-operation for their continuous support and encouragement in success of this project.

Place: SVCE, Indore

Date:

Ayush Sawle [0822CS201001] Kunal Mahajan [0822CS201047] Koushlesh Yadav [0822CS201045] Ghabhanshu Wakode [0822CS201024]

# **ABSTRACT**

It is a social news website and forum where content is socially curated and promoted by site members through voting. Whether it's a place to discuss serious topics like politics or a fun space wherein people share cute content, there's a Place for almost every type of interest group. It makes it easy to interact with strangers from all over the world around shared interests or things you have in common. It is a social sharing website. It's built around users submitting links, pictures, and text, which everyone can then vote on. The best content rises to the top, while downvoted content becomes less visible. It is useful for a lot of things, most notably for staying up to date on the latest news, trends, memes, and more. In addition to this, it allows you to find and join niche communities that you might have trouble finding elsewhere online.

# **COLLEGE SELECTION WEBSITE**



A Minor Project Report Submitted to
Rajiv Gandhi Proudyogiki Vishwavidhyalaya, Bhopal (M.P.)
towards partial fulfillment for the award of the degree of

#### **BACHELOR OF TECHNOLOGY**

In

#### COMPUTER SCIENCE AND ENGINEERING

Guided By
Mr. Vaishali Upadhyay
Asst. Prof.
CSE Department

Submitted By Ajay Sharma [0822CS201006] Vijay Sharma [0822CS201117] Om Deepak Patel [0822CS201069] Sachin Chouhan [0822CS201088]

Department of Computer Science and Engineering Swami Vivekanand College of Engineering, Indore (M.P)2022-2023

#### **CERTIFICATE**



This is to certify that the Minor Project Report entitled "COLLEGE SELECTION WEBSITE" submitted to "Rajiv Gandhi Proudyogiki Vishwavidhyalaya; Bhopal" by Ajay Sharma, Vijay Sharma, Om Patel and Sachin Chouhan is a partial fulfillment of the requirement for the award of the degree in B.Tech with specialization in Department of Computer Science Engineering.

Ajay Sharma (0822CS201006) Vijay Sharma (0822CS201117) Om Deepak Patel (0822CS201069) Sachin Chouhan (0822CS201088)

Mr. Ashish Tiwari

Guide, CSE SVCE, Indore Mr. Ashish Tiwari

HOD, CSE SVCE,Indore Dr.Pradeep Patil

Principal SVCE,Indore

#### **ACKNOWLEDGEMENT**

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Place: SVCE, Indore

Date:

Ajay Sharma [0822CS201006] Vijay Sharma [0822CS201117] Om Deepak Patel [0822CS201069] Sachin Chouhan [0822CS201088]

#### **ABSTRACT**

Traditional college admissions is a hectic process, with students visiting an off-site campus, taking an application, filling it out, and then submitting it is another hectic story. On the day of admission, the flow of candidates is very high and it requires both manual processing and record keeping at the same time which makes the process lengthy and difficult to track the admission status of a candidate across multiple departments. Currently the admission process is done manually with pen and paper which is very inefficient and consumes a lot of effort and time.

This College Selection Website Helps Make The Admission Process Much Easier.

The objective of the website is to provide college related information and latest updates about the happenings and academic programs in the College of Engineering. The website consists of web pages that are easy to navigate as well as provide sufficient depth and information.

The website will be authenticated and provide a secure environment. Salient features of the website: ••••••

# ONLINE TRUCK BOOKING



A Minor Project Report Submitted to
Rajiv Gandhi Proudyogiki Vishwavidyalaya, Bhopal (M.P.)
towards partial fulfillment for the award of the degree of

#### **BACHELOR OF TECHNOLOGY**

In

#### COMPUTER SCIENCE AND ENGINEERING

#### **Guided By**

Ms. Praneeta Bisen Asst. Prof. CSE Department

#### Submitted By

Sandeep Prajapati (0822CS201091) Vikas Sisodiya (0822CS201119)

Department of Computer Science and Engineering Swami Vivekanand College of Engineering, Indore (M.P) 2022-2023

# **CERTIFICATE**



This is to certify that the Minor Project Report entitled "Online Truck Booking" submitted to Rajiv Gandhi Proudyogiki Vishwavidyalaya, Bhopal" by Vikas Sisodiya (0822CS201119), Sandeep Prajapati (0822CS201091) is a partial fulfillment of the requirement for the award of the degree in B. Tech with specialization in Computer Science.

Candidate Name: Vikas Sisodiya, Sandeep Prajapati Enrollment No.: (0822CS201119), (0822CS201091)

Ms. Praneeta Bisen

Guide, CSE SVCE, Indore Mr. Ashish Tiwari

HOD, CSE SVCE, Indore Dr. Pradeep Patil

Principal SVCE, Indore

# <u>ACKNOWLEDGEMENT</u>

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I give special thanks to Mr. Ashish Tiwari, Computer Science and Engineering department for their willingness to help me in finding solutions to any problems I had with my work.

I am thankful to all teaching and non-teaching staff of the computer science and Engineering Department for their timely help and co-operation for their continuous support and encouragement in success of this project.

Place: SVCE, Indore

Date:

Vikas Sisodiya (0822CS201119)

Sandeep Prajapati (0822CS201119)

as per their requirements. A user (load provider) can browse the entire list of trucks and load complete information of the truck owner and the truck driver. The load provider and the truck owner will hold an account to search for loads and get the contact information or additional load details of the truck. To post your loads/trucks you will need to set up a free account according to their requirements. In the general scenario, the truck driver is unable to get the load from the load provider without any contacts. To discard this problem, both the truck owner and the load provider will have their accounts on our website which will allow them to avail the services like adding a truck, uploading an empty truck, search for available trucks and so on.

#### Dissertation

Submitted in fulfillment for the award of Post Graduate Degree of MASTER OF TECHNOLOGY IN COMPUTER SCIENCE AND **ENGINEERING** 

"Deep Learning Techniques Based Plant Leaf Disease and Prediction"

#### Submitted to

Rajiv Gandhi Proudyogiki Vishwavidyalaya BHOPAL (M.P.)



Guided by: Ms. Priya Sen Assistant Professor Department of CSE

Submitted by: Mayur Kumar Bundela [0822CS19MT03]

Department of Computer Science and Engineering

SWAMI VIVEKANAND COLLEGE OF ENGINEERING,

INDORE (M.P)

2022-23

## Swami Vivekanand College of Engineering Indore (M.P)



#### CERTIFICATE

This is to certify that Mayur Kumar Bundela (0822CS19MT03) has completed his project work, titled

## "Deep Learning Techniques Based Plant Leaf Disease and Prediction"

As per the syllabus and has submitted a satisfactory report on this project

As a fulfillment towards the degree of

MASTER OF TECHNOLOGY

COMPUTER SCIENCE AND ENGINEERING

From

RAJIV GANDHI PROUDYOGIKI VISHWAVIDYALAYA, BHOPAL

Dr. Pradeep Patil

Principal

S.V.C.E., Indore

36

S.V.C.E., Indore

#### RECOMMENDATION

The dissertation entitled "Deep Learning Techniques Based Plant Leaf Disease and Prediction" submitted by Mayur Kumar Bundela [0822CS19MT03] is recommended as fulfillment for the award of the Master of Technology (Computer Science and Engineering) degree by Rajiv Gandhi Proudyogiki Vishwavidyalaya.

Internal Examiner

Date:

Evternal Examiner

Date:

The latest advances in deep learning indicate that repeated image appreciation organization using convolutional neural network (CNN) models can be very beneficial in such troubles. Since the plant leaf disease imaging dataset is not readily accessible, we used transfer learning to enlarge our deep learning model. Accurate or timely recognition of diseases in plants leaf can help farmers to deal with plants in time, which can greatly reduce economic losses. The latest development of the deep learning-based convolutional neural network (CNN) has vastly enhanced accuracy of image classification. Driven by CNN's success in image classification, this paper developed a deep learning-based method for detecting infection from images of plants leaf. The contribution of this work has two aspects: The most advanced deep learning architecture, such as ResNet50, DenseNet, used for recognition of the plant leaf disease. Training, testing and experimental results show that proposed architecture can realize and higher ResNet50 model getting is 95%.accuracy as compare to other model

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realting or several times higher food yields then in the meta blade a lagra. I will prove

**Keywords** - Plant disease detection, image processing, image acquisition, segmentation, feature extraction, classification.

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#### Dissertation

Submitted in fulfillment for the award of Post Graduate Degree of

## MASTER OF TECHNOLOGY IN COMPUTER SCIENCE AND ENGINEERING

"Roll Back Operation HSDRT Based Data Backup and Security in Cloud Computing"

Submitted to

Rajiv Gandhi Proudyogiki Vishwavidyalaya

BHOPAL (M.P.)



Guided by:
Ms. Priya Sen
Assistant Professor
Department of CSE

Submitted by: Teena Chouhan [0822CS20MT14]

Department of Computer Science and Engineering

SWAMI VIVEKANAND COLLEGE OF ENGINEERING,

INDORE (M.P) 2022-23

## Swami Vivekanand College of Engineering Indore (M.P)



#### **CERTIFICATE**

This is to certify that Teena Chouhan (0822CS20MT14) has completed his project work, titled "Roll Back Operation HSDRT Based Data Backup and Security in Cloud Computing" As per the syllabus and has submitted a satisfactory report on this project as a fulfillment towards the degree of Master of Technology.

## **MASTER OF TECHNOLOGY** COMPUTER SCIENCE AND ENGINEERING

From

RAJIV GANDHI PROUDYOGIKI VISHWAVIDYALAYA, BHOPAL

Ms. Priya Sen

Guide, Asst. Professor

S.V.C.E., Indore

Mr. Ashish Tiwari

**Head of Department** 

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40

## Swami Vivekanand College of Engineering Indore (M.P)



#### Department of Computer Science and Engineering

#### RECOMMENDATION

The dissertation entitled "Roll Back Operation HSDRT Based Data Backup and Security in Cloud Computing" submitted by Teena Chouhan [0822CS20MT14] is recommended as fulfillment for the award of the Master of Technology (Computer Science and Engineering) degree by Rajiv Gandhi Proudyogiki Vishwavidyalaya.

Internal Examiner

Date:

Date:

Cloud computing is a revolutionary mechanism that changing way to enterprise hardware and software design and procurements. Because of cloud simplicity everyone is moving data and application software to cloud data centers. The purpose of the proposed algorithm is twofold: the first is to help users collect information from any remote location without a network connection, and the second is to recover files when they are deleted or the cloud is destroyed. Cloud computing is considered as an on-demand delivery of services in which applications and infrastructure are allocated to users as metered services over networks. Cloud computing services are much cheaper as the user does not have to setup any computing hardware support. It is an emerging technology that delivers computing services such as online business applications and data storage over the Internet. Implementing cloud enables a distributed working environment, where it reduces expenditure of the organization, provides data, information security and so on. Cloud computing has created a paradigm shift in the way information technology resources are provided and consumed by increasing agility and lowering costs. However, cloud-security concerns appear at the top of almost all surveys. Traditional security solutions are having a hard time trying to keep up with the growing security needs of the ever-changing threat landscape in today's cloud environment. This research paper aims to explore the concept of cloud security and its impact on the present day IT environment

The proposed HSDRT and roll back operation is proposed in this thesis this algorithm can these problems so that the recovery process takes the least processing time. The proposed HSDRT algorithm with AES encryption technique will also focus on the security of backed up files stored on remote servers. Cloud storage provides online storage where data is usually stored in the form of a virtual pool hosted by a third party.

Key words -AES, Cloud, Encryption, Decryption, Cloud Server, Security, Rollback, HSDRT

#### Dissertation

Submitted in fulfillment for the award of Post Graduate Degree of

MASTER OF TECHNOLOGY IN COMPUTER SCIENCE AND ENGINEERING

"MRI Image Segmentation and Classification Using KFCM and Convolution Neural Networks"

#### Submitted to

Rajiv Gandhi Proudyogiki Vishwavidyalaya BHOPAL (M.P.)



Guided by:
Ms. Priya Sen
Assistant Professor
Department of CSE

<u>Submitted by:</u> Mithilesh Nandini Malviya [0822CS20MT07]

Department of Computer Science and Engineering

SWAMI VIVEKANAND COLLEGE OF ENGINEERING, INDORE (M.P)

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2022-23

## Swami Vivekanand College of Engineering Indore (M.P)



#### CERTIFICATE

This is to certify that Mithilesh Nandini Malviya (0822CS20MT07) has completed his project work, titled

## "MRI Image Segmentation and Classification Using KFCM and Convolution Neural Networks"

As per the syllabus and has submitted a satisfactory report on this project

As a fulfillment towards the degree of

#### **MASTER OF TECHNOLOGY**

#### COMPUTER SCIENCE AND ENGINEERING

From

RAJIV GANDHI PROUDYOGIKI VISHWAVIDYALAYA, BHOPAL

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### RECOMMENDATION

The dissertation entitled "MRI Image Segmentation and Classification Using KFCM and Convolution Neural Networks" submitted by Mithilesh Nandini Malviya [0822CS20MT07] is recommended as fulfillment for the award of the Master of Technology (Computer Science and Engineering) degree by Rajiv Gandhi Proudyogiki Vishwavidyalaya.

Internal Examiner

Date: 24/05/23

**External Examiner** 

Date: 24/05/23

This work focus on the stage effectual categorization of brain tumor descriptions and segmentation of exist illness images employing the segmentation and classification techniques. The major goal of the future method is to design well-organized and accurate algorithm that segmentation tumor region from brain MRI. The algorithm identifies the position of tumor in brain MRI as they are mostly preferred for tumor diagnosis in clinic. The proposed method also crops tumor region from segmented image and way growth of tumor and help in treatment planning. It also provides important information about location, dimension and shape of brain tumor region with no exposing the enduring to a high ionization radiation. The size of tumor is calculated in term of number of pixels. Similarly the primary brain tumor is considered into Benign and malignant type on MRI brain images, based on accuracy, sensitivity, specificity in MATLAB simulation. Marix 1

#### A

#### Dissertation

Submitted in Fulfillment for the Award of Post Graduate Degree of MASTER OF TECHNOLOGY IN COMPUTER SCIENCE AND ENGINEERING

"A Cloud Scheduling Algorithm using VM Aware Resource Request Utilization (VMRRU) in Cloud Computing"

Submitted to
Rajiv Gandhi Proudyogiki Vishwavidyalaya
BHOPAL (M.P.)



#### **Guided By**

Ms. Priya Sen

**Assistant Professor** 

**CSE Department** 

Submitted By

Mr. Harsh Hardia [0822CS18MT06]

Department of Computer Science and Engineering

SWAMI VIVEKANAND COLLEGE OF ENGINEERING,
INDORE (M.P)

2022-2023

## SWAMI VIVEKANAND COLLEGE OF ENGINEERING, INDORE (M.P)



## **CERTIFICATE**

This is certify that Harsh Hardia [0822CS18MT06] has completed his project work, titled

"A Cloud Scheduling Algorithm using VM Aware Resource Request Utilization(VMRRU) in Cloud

As per the syllabus and has submitted a satisfactory report on this projectas a fulfillment towards the degree of

MASTER OF TECHNOLOGY COMPUTER SCIENCE AND ENGINEERING

From

RAJIV GANDHI PROUDYOGIKI VISHWAVIDYALAYA, BHOPAL

Assistant Professor

**CSE Department** 

Mr. Aashish

Assistant Professor

**CSE Department** 

Dr. Pradeep Pati

Principal

S.V.C.E., Indore



Cloud computing and its components make use of their combine efforts to process input request to any cloud architecture. Cloud components such as virtual machine Vm, Cloud Data center DC, Broker request Br and their configuration cominely configure a cloud scenario. Cloud computing component make use of request, resrouce and its utilization analysis to process any of the algorithm. It make usage of resource in proper optimization manner. In order to provide better quality of services and proper cloud component scheduling many algorithms were proposed. Algorithm such as round robin, throuttle, Genetic algorithm etc were proposed by the existing research work. Limitations with such algorithms are of monitoring single level of utilization. They are either concentrating on resource utilization or in energy consumption by their resources for that request process. Further the internal process doesnot comply with parallel process of monitoring such utilization. In this research, An Advance Algorithm named VMRRU (Virtual machine resource request utilization) is proposed. The approach also make use of utilizing monitoring of energy, resource usage count, input request requirement and matching requirement of assigning DC, VM to it. Thus an optimal request handling algorithm with parallel computation is proposed. An implementation is performed using CloudSim API cloudanalyst simulator and further computation shows the efficiency of proposed algorithm.

Keywords: Resource Optimization, Cloud Sim, Data Sharing, Virtualization, VMERRU, Parallel Computing, Request Analysis, Cloud component scheduling.

## RECOMMENDATION

The dissertation entitled "A Cloud Scheduling Algorithm using VM Aware Resource Request Utilization(VMRRU) in Cloud Computing" submitted by Harsh Hardia [0822CS18MT06] is recommended as fulfillment for the award of the Master of Technology (Computer Science and Engineering) degree by Rajiv Gandhi Proudyogiki Vishwavidyalaya.

Internal Examiner

Date: 26 06 2023

External Examiner

Date: 26 66 (9er 3

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#### Dissertation

Submitted in fulfillment for the award of Post Graduate Degree of

## MASTER OF TECHNOLOGY IN COMPUTER SCIENCE AND ENGINEERING

"An Approach to Optimize Authorship Verification in Online Social Networks Using LSTM Deep neural Network"

#### Submitted to

Rajiv Gandhi Proudyogiki Vishwavidyalaya

BHOPAL (M.P.)



Guided by: Mr. Aashish Tiwari Professor Department of CSE <u>Submitted by:</u> Geetanjali Baraskar [0822CS20MT05]

Department of Computer Science and Engineering

SWAMI VIVEKANAND COLLEGE OF ENGINEERING,

INDORE (M.P) 2022-23

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O

## Swami Vivekanand College of Engineering Indore (M.P)



#### **CERTIFICATE**

This is to certify that Geetanjali Baraskar (0822CS20MT05) has completed his project work, titled "An Approach to Optimize Authorship Verification in Online Social Networks Using LSTM Deep neural "As per the syllabus and has submitted a satisfactory report on this project as a fulfillment towards the degree of Master of Technology.

## MASTER OF TECHNOLOGY COMPUTER SCIENCE AND ENGINEERING

From

RAJIV GANDHI PROUDYOGIKI VISHWAVIDYALAYA, BHOPAL

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Dr. Pradeep Patil

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S.V.C.E., Indore

### Swami Vivekanand College of Engineering Indore (M.P)



Department of Computer Science and Engineering

#### RECOMMENDATION

The dissertation entitled "An Approach to Optimize Authorship Verification in Online Social Networks Using LSTM Deep neural Network" submitted by Geetanjali Baraskar [0822CS20MT05] is recommended as fulfillment for the award of the Master of Technology (Computer Science and Engineering) degree by Rajiv Gandhi Proudyogiki Vishwavidyalaya.

1

Date: 24/7/23

External Examiner

Date: 24/7/23

Due to the proliferation of web-based applications and the growth in the amount of data created and stored, the World Wide Web now contains an unprecedented wealth of information for its users. The Internet has evolved into a global forum for the free flow of information, knowledge, and ideas. The use of social networking sites like Twitter, Facebook, and Google+ continues to rise rapidly since they enable users to exchange opinions on issues, talk with other groups or post messages worldwide. The expanded usage of Online Social Network (OSN) has become necessary to appear to grow of Authorship Verification (AV), OSN is the environment in which users can connect with other users to discuss ideas of any topics then expansion data and information. AV considered as a resource of researches and information in different ways, as is the case Sentiment Analysis (SA). This approach is contrasted to a prior extraction of features and learning technique that was ineffective in producing improved results using the Tweets API dataset. Twitter is a prominent online community where users publish and respond to short messages known as "tweets," the new model will be able to provide a higher degree of accuracy. In this study, we introduced the Long Short-Term Memory (LSTM) deep neural network technique. What this model entails was tested on a Twitter-based dataset, and it produced improved results with an accuracy of 98.65, precision of 98.74, and F1-score of 98.76.

Keywords: Optimization, Authorship verification, Sentiment analysis, Neural network, dataset etc.

#### A

#### Dissertation

## Submitted in Fulfilment for the Award of Post Graduate Degree of MASTER OF TECHNOLOGY IN COMPUTER SCIENCE AND ENGINEERING

"Detection of Image forgery using Image Pre-processing and Bayesian Probabilistic Neural Network"

# Submitted to Rajiv Gandhi Proudyogiki Vishwavidyalaya BHOPAL (M.P.)



Guided By

Mr. Ashish Tiwari

**Assistant Professor** 

**CSE Department** 

Submitted By

Ms. Anjali Mehta

[0822CS18MT02]

Department of Computer Science and Engineering

SWAMI VIVEKANAND COLLEGE OF ENGINEERING, INDORE (M.P)

2022-2023

## SWAMI VIVEKANAND COLLEGE OF ENGINEERING, INDORE (M.P)



#### **CERTIFICATE**

This is certify that Anjali Mehta [0822CS18MT02] has completed his project work, titled "Detection of Image forgery using Image Pre-processing and Bayesian Probabilistic Neural Network"

As per the syllabus and has submitted a satisfactory report on this project

as a fulfilment towards the degree of

MASTER OF TECHNOLOGY

COMPUTER SCIENCE AND ENGINEERING

From

RAJIV GANDHI PROUDYOGIKI VISHWAVIDYALAYA, BHOPAL

Mr. Ashish Tiwari

Guide & HOD

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Dr. Pradeep Patil

Principal

S.V.C.E. Indore

Swami Vivekanand Cellege of Engineering Khandwa Road,Indore

### RECOMMENDATION

The dissertation entitled "Detection of Image forgery using Image Pre-processing and Bayesian Probabilistic Neural Network" submitted by Anjali Mehta [0822CS18MT02] is recommended as fulfilment for the award of the Master of Technology (Computer Science and Engineering) degree by Rajiv Gandhi Proudyogiki Vishwavidyalaya.

Date:

Date:

#### Abstract

Images have the capability to render a large amount of information. With the widespread popularity of social networking services such as WhatsApp, Facebook, Instagram, Snapchat, Twitter etc., there has been a huge increase in the volume of image data that is shared instantly. This has also increased the cases of fake or forged images being shared which can have serious after-effects. Image forgery can affect the image of persons, organizations and communities and in some cases cause social unrest and violence. Due to the size and complexity of the data being shared, it is almost infeasible for manual detection of image forgery. Therefore, it has become mandatory to design automated systems which can detect image forgery in very less time and with high accuracy. Since the data size to be analyzed by time critical applications is enormous indeed, therefore the conventional techniques prove to be infeasible to detect image forgery with high level of accuracy, which primarily leads the focus to artificial intelligence and machine learning tools for the same. The category of machine learning which has been used in this approach is the deep learning. The proposed work presents a methodology that uses statistical feature extraction and artificial neural networks for image forgery detection. The algorithm used is the Probabilistic Neural Network to train the deep neural network that is designed. Prior to training the neural network with the image parameters, necessary image pre-processing and noise removal techniques have been applied. Significant image parameters often termed as features are computed so as to train the neural network with the parameters which stand distinctively discrete in terms of the classification of images into categories of forged images and unforged images. It has been shown that the proposed system attains a classification accuracy of 90.9% which is considerably higher compared to the accuracy of previously existing techniques for the same dataset used.

Keywords: Image Forgery, Image Pre-Processing, Feature Extraction, Bayesian Probabilistic Neural Network, Classification Accuracy.

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#### A

#### **Major Project**

### **MUSIC WEB PLAYER**

Submitted in partial fulfillment of the requirement for the award the degree

#### **BACHELOR OF ENGINEERING**

(Information Technology & Engineering)

**Submitted To** 



## RAJIV GANDHI PRODYOGIKI VISHWAVIDYALAYA, BHOPAL (M.P) Submitted by

YASHPAL SISODIYA AVADHESH PATEL VIRENDRA GUNJAN Enrollment No- 0822IT191047 Enrollment No- 0822IT191007 Enrollment No- 0822IT191044



# SWAMI VIVEKANAND COLLEGE OF ENGINEERING (Department of Information Technology & Engineering) BHOPAL (M.P.)

SESSION: 2022-23

Month-Year

Under The Guidance of Prof. Shivani Gupta

SVCE, Indore (M.P)

## **Visual Sorting**



#### **Major Project Synopsis**

Major Project (IT706)

Semester-7th

Session-2022(July-Dec)

Guided By:

Ms. Amisha Bhime

Assistant professor

St. 112722

**Submitted By:** 

Shruti Sharma(0822IT191038)

Shivam Saxena(0822IT191033)

Department of Information Technology

Swami Vivekanand College of Engineering, Indore

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Sequences of execution of algorithms in an interactive manner using AV tools are employed in this project.

It helps to realize the concept of fundamentals of algorithms such as sorting method in a simple manner.

Visualization gains more attention than theoretical study and it is an easy way of learning process. We propose methods for finding runtime sequence of each algorithm in an interactive way and aims to overcome the drawbacks of the existing character systems.

System illustrates each and every step clearly using text and animation. Comparisons of its time complexity have been carried out and results show that our approach provides better perceptive of algorithms

## Play With Extension



#### **Major Project Synopsis**

Major Project I (IT706)

Semester-7<sup>th</sup>

Session-2022(July-Dec)

#### Guided by:

Ms. ChandramalaAmarji

Assistant professor

#### Submitted by:

Sandip Rathore(0822IT191029)

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Department of Information Technology

Swami Vivekanand College of Engineering, Indore

#### **Abstract**

Science and Technology has changed this world into a small, secure and easy to manage every activity of the individual and organization. Everything is more secure, easy to use and easily accessible in this modern world. Thus, the use of house rental system is needed to manage, search, book and rent the house easily. This Web Application helps user to register individual home or apartment to assist you in finding the perfect rental home/apartment etc. Also we can find your next rental from search view in your targeted area. This application is designed to attend to all our needs from renting home to take a home at rent. Here we found the better opportunity to find the renter/rental. We know it is a tiring to call individual agents, arrange appointment, finding better time for appointment and they will assist you. For such complex process we provide a one simple online form which requires your basic information and we will assist in sort time period. In order to give easy access to find the houses and rent as per the users need, the application has been discussed in this documentation. And it includes all the detail information about the project respectively

## **Ticket Buddy**



A Dissertation submitted to
Rajiv Gandhi Proudyogiki Vishwavidyalaya
Towards partial fulfillment of the Requirements for
The Degree of Bachelor of Engineering in
Information Technology
(Session 2023)

Guided By: Ms. Chandramala Amarji Assistant Professor Submitted By: Rohan Gehlod (0822IT191025) Vishal Malviya (0822IT191046)

Department of Information Technology

Swami Vivekanand College of Engineering, Indore

June 2023

Science and Technology has changed this world into a small, Secure and easy to manage every activity of the individual and Organization. Everything is more secure, easy to use and easily accessible in this modern world.

This application is like a reselling ticket made in JAVA. This web application developed in JAVA platform is replication of the ticket purchase app we all are familiar with and which we use quite often on a daily basis. The only difference being that, this application has been created using HTML and CSS for front-end Interface.

The data in the application is stored in the desired location. This Web application is Ticket Buddy that extends the basic and Smart Features to the end user.

#### A

#### **Major Project 2**

## Smart Vyapari Web Application

Submitted in partial fulfillment of the requirement for the award the degree

## BACHELOR OF ENGINEERING

(Information Technology & Engineering)

**Submitted To** 



## RAJIV GANDHI PRODYOGIKI VISHWAVIDYALAYA, BHOPAL (M.P) Submitted by

AVADHESH PATEL VIRENDRA GUNJAN YASHPAL SISODIYA Enrollment No- 0822IT191007 Enrollment No- 0822IT191044 Enrollment No- 0822IT191047



# SWAMI VIVEKANAND COLLEGE OF ENGINEERING (Department of Information Technology & Engineering) BHOPAL (M.P.) Month- Year

**SESSION: 2022-23** 

Under The Guidance of Prof. Chandramala Amarji SVCE, Indore (M.P)

### **Abstract**

Smart Vyapari is a web application designed to help small business owners manage their operations more efficiently. The application provides a range of tools and features that are specifically designed to meet the needs of small business owners, including inventory management, sales tracking, invoicing, and customer relationship management.

One of the key features of Smart Vyapari is its user-friendly interface, which makes it easy for small business owners to navigate and use the application. The application also includes a dashboard that provides a snapshot of key performance indicators, such as sales, inventory levels, and customer data.

In addition to these core features, Smart Vyapari also includes a range of add-ons and integrations that can be used to extend the functionality of the application. For example, users can connect the application to popular accounting software, such as QuickBooks or ero, or integrate it with e-commerce platforms like Shopify or Woo Commerce.

Overall, Smart Vyapari is a comprehensive web application that provides small business owners with the tools they need to manage their operations more effectively while also helping them to streamline their processes and increase their productivity.

## **Personal Voice Assistant**



## **Major Project Synopsis**

Major Project I (IT706)

Semester-7 th

Session-2022(July-Dec)

#### Guided by:

Ms. Shivani Gupta Assistant professor

#### Submitted by:

Shobhit Katiyar(0822IT191036)
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Department of Information Technology Swami Vivekanand College of Engineering, Indore

Voice assistants are software agents that can interpret human speech and respond via synthesized voices. Apple's Siri, Amazon's Alexa, Microsoft's Cortana, and Google's Assistant are the most popular voice assistants and are embedded in smartphones or dedicated home speakers. Users can ask their assistants questions, control home automation devices and media playback via voice, and manage other basic tasks such as email, to-do lists, and calendars with verbal commands. This column will explore the basic workings and common features of today's voice assistants. It will also discuss some of the privacy and security issues inherent to voice assistants and some potential future uses for these devices. As voice assistants become more widely used, librarians will want to be familiar with their operation and perhaps consider them as a means to deliver library services and materials.

**Keywords:**- Human computer interaction; internet; libraries; software agents; speech recognition; voice assistants

## SWAMI VIVEKANAND COLLEGE OF ENGINEERING INDORE (M.P) "DEPARTMENT OF INFORMATION TECHNOLOGY"



**SESSION -: JAN-MAY 2022** 

SEMESTER -: 6<sup>TH</sup> SEM

MINOR PROJECT II (IT-608)

### **BLOOD DONOR MANAGEMENT SYSTEM**

**GUIDED BY: -**

MRS.SAPNA PARMAR MAM ASSISTANT PROFESSOR **SUBMITTED BY: -**

KUNAL SINGH (0822IT191011) SANSKAR JAIN (0822IT191030) SHOBHIT DUBEY (0822IT191035)

### Grievance Redressal System



A Dissertation submitted to

Rajiv Gandhi Praudyogiki Vishwavidyalaya

Towards partial fulfillment of the Requirements for The Degree of Bachelor of Engineering in Information Technology

(Session 2023)

Guidea By: -

Meenakshi Prajapati Assistant Professer Submitted By:-

Shuhham Mukati(08221T201054)
Shuhham Mukati(08221T201053)
Vishal Karma(08221T201062)

### **ABSTRACT**

The Objective of the project is to any time customer has to make any transactions; He must go to the bank and take the required steps, which might not be possible at all the time. This project is based on the real-life understanding of the online banking environment and the task. It is flexible for growth and has a whopping future scope.

Grievance Redressal System is a mechanism to receive and act on complaints and grievances reported by customers of a private organization or public citizens accessing a government (G2C) services.

Grievance Redressal System may be handled directly by organizations through their own website or through call centers. A new innovation is smart web portals for grievance processing, connecting customers and action-takers directly through ICT media such as email.

### **Online Examination System**



### A Dissertation submitted to

Rajiv Gandhi Proudyogiki Vishwavidyalaya

Towards partial fulfillment of the Requirements for The Degree of Bachelor of Engineering in Information Technology (Session 2023)

### Guided By:

Ms. Chandramala Amarji

(Head of Department)

### Submitted By:

Ankit Patel(0822IT201011)

Niraj Kaushal(0822IT201032)

Parag Wadhwani(0822IT201034)

Department of Information Technology

Swami Vivekanand College of Engineering, Indore

June 2023

### **ABSTRACT**

Exams are administered and managed online through a computerized system known as the **Online Examination System**. The system offers a quick and simple method for creating and delivering true/false and multiple-choice assessments. Students may easily sign up and access their tests thanks to its modules for user registration, login, and exam scheduling. The system offers a secure setting for conducting exams with cutting-edge features including time restrictions, randomly generated questions, and result display. The project's user-friendly interface, which was created using Java swing technology, makes it easy to use for both students and administrators. By eliminating paper-based exams and the related administrative burden, the Online Examination System project offers a workable solution for administering exams online.

A desktop application called the Online Examination System Project. We propose system with Java swing Technology & Database Connectivity for users. JDBC enables users to take online tests securely and effectively. The system connects to a database, stores exam-related data, and produces reports using Java Database Connectivity (JDBC). Multiple users, including administrator who can create, manage, and take examinations, are supported by the project's framework. Users can complete a variety of tasks using the system's user-friendly interface, including creating and modifying tests, managing student data, generating reports, and keeping track of exam results. For organizations and educational institutions who wish to increase test security, minimize administrative expenses, and streamline their exam procedures, the Online Examination System Project using JDBC is the perfect option.

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### Design And Implementation Of Niswarth



A Dissertation submitted to
Rajiv Gandhi Proudyogiki Vishwavidyalaya
Towards partial fulfillment of the Requirements for
The Degree of Bachelor of Engineering in
Information Technology
(Session 2023)

Guided By-

Ms.Meenakshi Prajapati

Assistant Professor

Submitted By-

Archi Shrivas(0822IT201013)

Pratiksha Trivedi(0822IT201040)

Sakshi Jaiswal (0822IT201047)

### **ABSTRACT**

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"Niswarth" is an online Information Portal for the social activities conducted in our college viz. Blood donation camps, Swachh Bharat Abhiyan, Traffic awareness drives, plantation drives, etc. Actually it is the online portal of our college's social council, i.e. Niswarth. All its activities will be managed online. So, this application aims to register the interested students and faculties, provide details of the upcoming events and invite suggestions and will try to extend a helping hand towards the society.

It is an online MIS for socially active citizens. It is an extension to our minor project entitled "Indore Blood Bank", which is an online MIS for blood donors. We have included this project as a dedicated service in Niswarth, to run in parallel. Thus, Niswarth will prove to be a great application dedicated to the society.

It is a web application, built in Java. It provides the facility to the social activists, to register themselves and manage their profiles. Moreover, they can specify their areas of interest through which they will serve the society. The admin will have the key to the database of such students and faculties. He will create teams, inform about the events coming up and coordinate them as well. Again, this is a non-profit initiative to solely to serve the society.

### ?SKEPTIC

A Major Project Report Submitted To



A Dissertation submitted to

Rajiv Gandhi Proudyogiki Vishwavidyalaya

Towards partial fulfillment of the Requirements for The Degree of Bachelor of Engineering in Information Technology (Session 2023)

Guided By:

Mrs. Meenakshi Prajapati

**Assistant Professor** 

Submitted By:

Aakanshi Dixit (0822IT201001)

Aashutosh Pal (0822IT201003)

Department of Information Technology



Swami Vivekanand College of Engineering, Indore

### ABSTRACT

?Skeptic will also try to allow contributors to monetize their content. In addition, the platform will launch a subscription service called ?Skeptic+ which allows subscribers to pay an annual subscription to access content that any creator chooses to put behind a paywall ?Skeptic required users to register with the complete form of their real names rather than an Internet pseudonym although verification of names is not required, false names can be reported by the community. Users with a certain amount of activity on the website have the option to write their answers anonymously (to hide real name or identity) but not by default. Users may also log in with their Google or Facebook accounts by using the OpenID protocol and can share the Q/A's there.

?Skeptic allows users to create user profiles with visible real names, photos, emails, etc. which users can set to private. ?Skeptic will be a platform which will includes every types of writers.

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While, ?skeptic has measure in place to promote high-quality content, there is still a risk of misinformation and inaccuracies on the may platform, especially on the controversia! or sensitive topics. To overcome this problem, users should always be critical of the information they find on ?skeptic and verify it through other sources if necessary. By cross-referencing the information they find on ?Skeptic with reliable sources, users can ensure that they are getting accurate information and trustworthy information.

### **Grocery Store**



A Dissertation submitted to

Rajiv Gandhi Proudyogiki Vishwavidyalaya

Towards partial fulfillment of the Requirements for The Degree of Bachelor of Engineering in Information Technology (Session 2023)

Guided By:

Meenakshi Prajapat

**Assistant Professor** 

Submitted By:

Pallavi Meshram(0822IT201033)

Varsha Malviya(0822IT201060)

Page1 | 26

### **ABSTRACT**

An online Grocer Store permits a customer to submit online orders for items and/or services from a store that serves both walk- in customers and online customers. The online Store system presents an online display of all the items they want to sell. This web based application helps customers to choose their daily needs and add products to their shopping cart. Customers provides their complete detail of address and contact and they get their chosen products in their home.

# E-Library



A Major Project Report Submitted to Rajiv Gandhi Proudyogiki Vishwavidhyalaya, Bhopal (M.P.) towards partial fulfillment for the award of the degree of

# **BACHELOR OF TECHNOLOGY**

Е

# INFORMATION TECHNOLOGY

**Guided By** 

Name: Chandramala Amarji

Asst. Prof.

IT Department

**Submitted By** 

Mukul Shukla 08221T201031 Sourabh Bhor 08221T201055 Vikash Vishwakarma

0822IT201061

Swami Vivekanand College of Engineering, Indore (M.P) Department of Information Technology 2022-2023

1

# **ABSTRACT**

enter a new book in the library, then we can do that easily. has issued how many books or how many books are pending, or if you want to information about all of them in the database, and we can also see which student more students and more librarians in any university, then it will be easy to fill We have thought of this according to the future purpose, when there are

5

(Affiliated To R.G.P.V. Bhopal Recognized By: Govt. of M.P.)



Session 2022-23

Major Project II

"Floor Cleaning Robot"

Major Project Report submitted to

Rajiv Gandhi Proudyogiki Vishwavidyalaya, Bhopal

Towards partial fulfillment of the degree of

Bachelor of Engineering in

**Electronics and Communication Engineering** 

**Submitted To:** 

Mr. Ravindra Sharma Sir

Submitted By:

Harsh Sahu (0822EC191017) Khushi Jain (0822EC191024) Manikant Yadav (0822REC191027)



#### Recommendation

This is to certify that the major project entitled "Floor Cleaning Robot". Submitted by Harsh Sahu, Khushi Jain and Manikant Yadav students of BTech fourth year of Electronics and Communication engineering department, in the year 2023 is a satisfactory account of work based on syllabus, which is approved for the partial fulfillment of degree of bachelor of Engineering.

Internal Examiner:

External Examiner:



#### Certificate

We hereby recommend that the major project entitled "Floor Cleaning Robot" submitted by Harsh Sahu, Khushi Jain and Manikant Yadav is approved for the partial fulfillment of degree of Bachelor of Engineering in Electronics and communication.

Principal

Mr. Pradeep Patil Sir

Mrs. Megha Soni Mam

Mr. Ravindra Sharma Sir



#### Declaration

We Harsh Sahu, Khushi Jain and Manikant Yadav student of Swami Vivekanand college of Engineering hereby declare that this project "Floor Cleaning Robot" is our unaided work with exception of guidance and ideas given by faculties of SVCE, Indore.

#### Name & Roll No.:

Harsh Sahu (0822EC191017) Khushi Jain (0822EC191024) Manikant Yadav (0822REC191027)

### "Vehicle Speed Detection System Using Arduino"



A

**Major Project** 

#### Submitted to the

Rajiv Gandhi Proudyogiki Vishwavidyalaya Bhopal (M. P.)

In partial fulfillment of the requirement for the degree of

Bacholer of Technology

In

**Electronics & Communication** 

Supervised by Prof. Hemant Verma

Submitted by

Student Name: Pankaj Singh Lokendra Prajapat Atul Yadav Jyoti Giri

Department of Electronics & Communication Engineering Swami Vivekanand College of Engineering, Indore (M.P.), India Session Jan-May-2023

### Swami Vivekanand College of Engineering, Indore (M.P.), India Department of Electronics & Communication Engineering



Jan-May-2023

### Certificate

This is to certify that this Major Project entitled "Vehicle Speed Detection System Using Atduino" Submitted by Atul Yadav, Pankaj sigh, Lakendra Prajapati and Jyoti Giri accepted for the partial fulfillment of the requirement for the award of the degree of Bacholer of Technologyin Electronics & Communication.

Internal Examiner:

Date: 11 6 75

External Examiner:

Date: ..!!.|5./22.

(Affiliated To R.G.P.V. Bhopal Recognized By: Govt. of M.P.)



Major Project on

#### **Human Robot**

Major Project Report submitted to

Rajiv Gandhi Proudyogiki Vishwavidyalaya, Bhopal

Towards partial fulfillment of the degree of

Bachelor of Engineering in

Electronics and Communication Engineering

Guided By:

Mrs Megha Soni

Submitted By:

Kundan Nagar (0822EC191025) Akshay Nimore (0822EC191003)

Anshu Tripathi (0822EC191010)

Sachin Pal (0822EC191037)

Dushyant Choudhury (0822EC203D01)

Mayur Aswer (0822EC203D04)

Project Coordinator Mr. Hemant Verma



#### Certificate

This is to certify that the major project entitled **Human Robot**. Submitted by Kundan Nagar, Akshay Nimore, and Anshu Tripathi, Sachin Pal, Dushant Choudhary and Mayur Ashwar students of BE fourth year of Electronics and Communication engineering department, in the year 2023 is a satisfactory account of work based on syllabus, which is approved for the partial fulfillment of degree of bachelor of Engineering.

Internal Examiner:

External Examiner:



#### Recommendation

We here by recommend that the major project entitled **Human Robot** submitted by Kundan Nagar, Akshay Nimore, Anshu Tripathi, Sachin Pal, Dushant Choudhary and Mayur Ashwar approved for the partial fulfillment of degree of Bachelor of Engineering in Electronics and communication.

Principal

Mr. Pradeep Patil

HOD

Mrs. Megha Soni

Guide

Mrs. Megha Soni



#### Declaration

We Kundan Nagar, Akshay Nimore, Anshu Tripathi, Sachin Pal, Dushant Choudhary and Mayur Ashwar student of Swami Vivekanand college of Engineering hereby declare that this project **Human Robot** is our unaided work with exception of guidance and ideas given by faculties of SVCE, Indore.

Name & Roll No,

Kundan Nagar (0822EC191025) Akshay Nimore (0822EC191003) Anshu Tripathi (0822E191010) Sachin Pal (0822EC191037) Dushyant Choudhary (0822EC203D01) Mayur Ashwar (0822EC203D04)

(Affiliated To R.G.P.V. Bhopal Recognized By: Govt. of M.P.)



Major Project On

#### IOT BASED HOUSE AUTOMATION

Major Project epor, subtaitted to

Rajiv Gandhi Proudyogiki Vishwavidyalaya, Bhopal

Towards partial fulfillment of the degree of

Bachelor of Engineering in

Electronics and Communication Engineering

Guided By:

Rohit Yaday Sir

Submitted By:

Ankit Patel (0822EC191007) Ankur Patel (0822EC191009)

Irfan sheikh(0822EC191021) Nafees shaikh(0822EC191029)

Naina Sawle (0822EC203D04)

Praveen Kumar Sahu(0822EC191034)

Pravin Kumar(0822EC191035)

Project Coordinator:

Hemant Verma Sir



### Certificate

This is to certify that the minor project entitled "IOT BASED HOME AUTOMATION SYSTEM" Submitted by Ankit Patel, Ankur Patel, Irfan Sheikh, Nafees Shaikh, Praveen Kumar Sahu, Pravin Kumar and Naina Sawle students of B.E. fourth year of Electronics and Communication engineering department in the year 2023 is a satisfactory account of work based on syllabus, which is approved for the partial fulfillment of degree of bachelor of Engineering.

Principal Sir

Mr. Pradeep Patil Sir

Mrs. Megha Soni Mam

Mr. Hemant Verma Sir



### Declaration

We Ankit Patel, Ankur Patel, Irfan Sheikh, Nafees Shaikh, Praveen Kumar Sahu, Pravin Kumar and Naina Sawle Students of Swami Vivekanand college of Engineering hereby declare that this project" Hemant Verma" is our unaided work with exception of guidance and ideas given by faculties of SVCE, Indore.

Externál Examiner:

### "Laser Security Room"



### **Major Project**

### Submitted to the

### Rajiv Gandhi Proudyogiki Vishwavidyalaya Bhopal (M.P.)

In partial fulfillment of the requirement for the degree of

Bacholer of Technology

In

Electronics & Communication

Supervised by

Prof. Hemant Verma

Submitted by

**Student Name:** 

Ajay Karma

Aman Giri

Harshit Boriya

Sahil Rathore



#### **CERTIFICATE**

This is to certify that the major project entitled "Laser Security Room" Submitted by Ajay karma, Aman Giri, Harshit Boriya and Sahil Rathore students of B. Tech fourth year of Electronics and Communication engineering department, in the year 2023 is a satisfactory account of work based on syllabus, which is approved for the partial fulfillment of degree of bachelor of Engineering.

Internal Examiner:

External Examiner:

### SWAMI VIVEKANAND COLLEGE OF ENGINEERING

INDORE-452001(M.P.)



### RECOMMENDATION

We hereby recommend that the major project entitled "Laser Security Room" Submitted by Ajay karma, Aman Giri, Harshit Boriya and Sahil Rathore is approved for the partial fulfillment of degree of Bachelor of Engineering in Electronics and communication.

Principal

Dr. Pradeep Patil Sir

Dr. Megha Soni Mam

Guided by

Mr. Heman Verma Sir



#### Declaration

We Ajay karma ,Aman Giri, Harshit Boriya and Sahil Rathore student of Swami Vivekanand College Of Engineering here by declare that this project "Laser Security Room" is our unaided work with exception of guidance and ideas given by faculties of SVCE, Indore.

### Name & Rollno:

Ajay Karma (0822EC101002)

Aman Giri (0822EC101005)

HarshitBoriya (0822EC191018)

Sahil Rathore (0822EC191038)

## "Voice Control Home Automation Using NodeMCU, Google Assistant"



A

### **Major Project**

Submitted to the

Rajiv Gandhi Proudyogiki Vishwavidyalaya

Bhopal (M. P.)

In partial fulfillment of the requirement for the degree of

Bacholer of Technology

In

Electronics & Communication

Supervised by

Submitted by

Prof. Hemant Verma

Student Name: Bhupendra Raykhere Nikhil Birla Yogesh Mangule

Department of Electronics & Communication Engineering Swami Vivekanand College of Engineering, Indore (M.P.), India Session Jan-May-2023

## Swami Vivekanand College of Engineering, Indore (M.P.), India Department of Electronics & Communication Engineering



Jan-May-2023

### Certificate

This is to certify that this Major Project entitled "Voice Control Home automation using NodeMCU" Submitted by Bhupendra Raykhere, Nikhil Birla and Yogesh Mangule accepted for the partial fulfillment of the requirement for the award of the degree of Bacholer of Technologyin Electronics & Communication.

Internal Examiner:

Date: ......

External Examiner:

Date: 11/5/23

Candidate Declaration

I hereby declare that the work, which is being presented in the Major Project,

entitled "voice control Home automation using NodeMCU" partial fulfillment of

the requirements for the award of degree of Bacholer of Technology in Electronics &

Communication, submitted in the department of Electronics and Communication

Engineering, Swami Vivekanand College of Engineering, Indore (M.P.) is an

authentic record of my own work carried under the guidance of Prof. Megha soni,

Head of EC Dept., SVCE, INDORE. I have not submitted the matter embodied in this

report for award of any other degree.

Date: 4.14.1.2023

Place:...IN.PORE

Student Name

Bhupendra Raykhere (0822EC191015)

Nikhil Birla (0822EC191031)

Yogesh Mangule (0822EC191047)

### "Smart Door Lock System Using Face Recognition"



A

### **Major Project**

#### Submitted to the

### Rajiv Gandhi Proudyogiki Vishwavidyalaya

Bhopal (M. P.)

In partial fulfillment of the requirement for the degree of

Bacholer of Technology

In

Electronics & Communication

Supervised by Submitted by

Prof. Hemant Verma Student Name:

Rohit Sarode

Shivam Panwar

Sanskar Chourasiya

Satyam Kushwah

Department of Electronics & Communication Engineering Swami Vivekanand College of Engineering, Indore (M.P.), India Session Jan-May-2023

### Swami Vivekanand College of Engineering, Indore (M.P.), India

### Department of Electronics & Communication Engineering



Dec-May-2023

### Certificate

This is to certify that this Major Project entitled "Smart Door Lock System Using face Recognition" Submitted by Student Name Rohit Sarode, Shivam Panwar, Sanskar Chourasiya, Satyam Kushwah accepted for the partial fulfillment of the requirement for the award of the degree of Bacholer of Technology in Electronics & Communication.

Internal Examiner:

Date: .... 415/12

external Examinor

Date: 11.15./2.2....

### SWAMI VIVEKANAND COLLEGE OF ENGINEERING

INDORE-452001(M.P.)



#### Recommendation

We here by recommend that the major project entitled" Smart Door Lock System Using Face Recognition" submitted by Rohit Sarode, Shivam Panwar, Sanskar Chourasiya and Satyam Kushwah is approved for the partial fulfillment of degree of Bachelor of Engineering in Electronics and communication.

Principal HOD

Dr. Pracleep Patil Dr. Megha Soni

Guide

Mr. Hemant Verma

(Affiliated To R.G.P.V. Bhopal Recognized By: Govt. of M.P.)



## MAJOR PROJECT II AIR POLLUTION MONITORING SYSTEM

Major Project Report submitted to Rajiv Gandhi Proudyogiki Vishwavidyalaya, Bhopal Towards partial fulfillment of the degree of Bachelor of Engineering in **Electronics and Communication Engineering** 

### SUBMITTED BY:

SHIVANI MUJALDE (0822E191044) NEHA YADAV (0822EC191030) ANKIT YADAV (0822EC191008) AYUSHI PRAJAPAT (822EC0191013)



This is to certify that the major project entitled Air Quality Monitoring System. Submitted by Shivani Mujalde, Neha Yadav, Ayushi Prajapat and Ankit Yadav students of B.Tech fourth year of Electronics and Communication engineering department, in the year 2023 is a satisfactory account of work based on syllabus, which is approved for the partial fulfillment of degree of bachelor of Engineering.

Internal Examinary

External Examiner:



#### Certificate

We hereby recommend that the major project entitled "Air Pollution Monitoring System" submitted by Shivani Mujalde, Neha Yadav, Ayushi Prajapat and Ankit Yadav is approved for the partial fulfillment of degree of Bachelor of Engineering in Electronics and communication.

Principal

Mr. Pradeep Patil Sir

HOD

Mrs. Megha Soni Mam

Guide

Mr. Jayesh Dabi Sir

(Affiliated To R.G.P.V. Bhopal Recognized By: Govt. of M.P.)



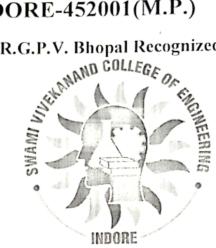
#### Declaration

We Shivani Mujalde, Neha Yadav, Ankit Yadav and Ayushi Prajapat student of Swami Vivekanand college of Engineering hereby declare that this project "Air Pollution Monitoring Sytem" is our unaided work with exception of guidance and ideas given by faculties of SVCE, Indore.

#### SUBMITTED BY:

SHIVANI MUJALDE (0822E191044) NEHA YADAV (0822EC191030) ANKIT YADAV (0822EC191008) AYUSHI PRAJAPAT (822EC0191013)

(Affiliated To R.G.P.V. Bhopal Recognized By: Govt. of M.P.)



Minor Project On

#### Robotic Arm

Minor Project Report submitted to

Rajiv Gandhi Proudyogiki Vishwavidyalaya, Bhopal

Towards partial fulfillment of the degree of

Bachelor of Technology in

Electronics and Communication Engineering

Guided By:

Mr. Ravindra Sharma

Submitted By:

Aarti Yadav (0822EC201001)

Anushka Vishwakarma (0822EC201005)

Krishna Yadav (0822EC201013)

Pawan Mehra (0822EC201019)

Abhishek Patidar (0822EC201003)

**Project Coordinator:** 

Mr. Jayesh Dabi



### RECOMMENDATION

We here by recommend that the minor project entitled "ROBOTIC ARM" submitted by Abhishek Patidar Aarti Yadav, Anushka Vishwakarma, Krishna Yadav, and Pawan Mehra is approved for the partial fulfillment of degree of Bachelor of Technology in EC.

Principal

Dr. Pradeep Patil

Dr. Megha Soni

Mr.HemantVerma

INDORE-452001(M.P.)



#### DECLARATION

We Aarti Yadav, Abhishek Patidar, Anushka Vishwakarma, Krishna Yadav and Pawan Mehra Student of Swami Vivekanand College of Engineering hereby declare that this project "R OBOTIC ARM" is our unaided work with exception of guidance and ideas given by faculties of SVCE, Indore

Name & Rollno:

Aarti Yadav (0822EC201001)

Anushka Vishwakarma (0822EC201005)

Krishna Yadav (0822EC201013)

Pawan Mehra (0822EC201019)

Abhishek Patidar (0822EC201003)

(Affiliated To R.G.P.V. Bhopal Recognized By: Govt. of M.P.)



Minor Project

#### **Driver Drowsiness Detection**

Minor Project Report submitted to

Rajiv Gandhi Proudyogiki Vishwavidyalaya, Bhopal

Towards partial fulfillment of the degree of

Bachelor of Technology in

Electronics and Communication Engineering

Guided By:

Mr. Ravindra Sharma

Submitted By:

Rahul kushwaha(0822EC201023)

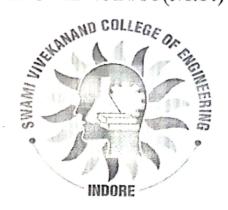
Ravi Verma(0822ME201030)

Shivam patel(0822EC191042)

Roshani Chouhan (0822EC191025)

Project Coordinator:

Mr. Jayesh Dabi



#### RECOMMENDATION

We here by recommend that the minor project entitled" **Driver Drowsiness Detection**" submitted by Rahul kushwaha, Ravi Verma, Roshani Chouhan and Shivam Patel is approved for the partial fulfillment of degree of Bachelor of Technology in Electronics and communication.

Principal

Dr. Pradeep Patil

HOD

Dr. Megha Soni

Mr. Ravindra Sharma



#### Declaration

We Rahul kushwaha ,Ravi Verma, Roshani Chouhan and Shivam Patel Student of Swami Vivekanand college of Engineering hereby declare that this Minor project 'Driver Drowsiness Detection " is our unaided work with exception of guidance and ideas given by faculties of SVCE, Indore.

Name & Rollno:

Rahul kushwaha(0822EC201023)

Ravi Verma(0822ME201030)

Shivam patel(0822EC191042)

Roshani Chouhan (0822EC191025)

(Affiliated To R.G.P.V. Bhopal Recognized By: Govt. of M.P.)



Minor Project On

#### **Obstacle Avoiding Robot**

Minor Project Report submitted to
Rajiv Gandhi Proudyogiki Vishwavidyalaya, Bhopal
Towards partial fulfillment of the degree of Bachelor
of Technology in
Electronics and Communication Engineering.

Guided By:

Mr. Jayesh Dabi

Submitted By:

Satyam Vishwakarma(0822EC201028) Babli Gour (0822EC201007) Tushar Sanghavi (0822EC201033) Nandini Dewara (0822EC201018)

Project Coordinator:

Mr. Ravindra Sharma



#### Recommendation

We here by recommend that the minor project entitled "Obstacle Avoiding Robot" submitted by "Satyam Vishwakarma, Tushar Sanghavi, Nandini Dewara and Babli Gour" is approved for the partial fulfillment of degree of Bachelor of Technology in Electronics and Communication.

Principal

Dr. Pradeep Patil

HOD:

Mrs. Megha Soni

Guide:

Mr. Jayesh Dabi



#### Declaration

We "Satyam Vishwakarma, Tushar Sanghavi, Nandini Dewara and Babli Gour" Student of Swami Vivekanand College of Engineering hereby declare that this project "Obstacle Avoiding Robot" is our unaided work with exception of guidance and ideas given by faculties of SVCE, Indore.

Name & Enrolment No:

Satyam Vishwakarma (0822EC201028) Babli Gour (0822EC201007)

Tushar Sanghavi(0822EC201033) Nandini Dewara (0822EC201018)

(Affiliated To R.G.P.V. Bhopal Recognized By: Govt. of M.P.)



Minor Project On

#### Electronic voting machine

Minor Project Report

Rajiv Gandhi Proudyogiki Vishwavidyalaya, Bhopal

Towards partial fulfillment of the degree of

Bachelor of Technology in

Electronics and Communication Engineering

Guided By:

**Submitted By:** 

Mr.Hemant Varma

Pranjal Rimjha (0822EC201020)

Nandini Upadhyay(0822EC201017)

Rahul Jaiswar (0822EC201022)

Abhijeet Gadhage(0822EC201002)

Shivani Ingla (0822EC201030)

**Project Coordinator:** 

Mr. Jayesh Dabi



#### Recommendation

We here by recommend that the major project entitled" electronic voting machine" submitted by Pranjal Rimjha ,Nandini Upadhyay,Rahul Jaiswar, Shivani Ingla and Abhijeet Gadhage is approved for the partial fulfillment of degree of Bachelor of Engineering in Electronics and communication.

Principal

Dr.Pradeep Patil

HOD

Dr.Megha Soni

Mr. Hemant Varma

INDORE-452001(M.P.)



#### Declaration

We Pranjal Rimjha ,Nandini Upadhyay,Rahul Jaiswar, Shivani Ingla and Abhijeet Gadhage Student of Swami Vivekanand college of Engineering hereby declare that this project" Electronic voting machine" is our unaided work with exception of guidance and ideas given by faculties of SVCE, Indore.

Name & Rollno:

Pranjal Rimjha(0822EC201020)

NandiniUpadhyay(0822EC201017)

Rahul Jaiswar(0822EC201022)

Abhijeet Gadhage(0822EC201002)

Shivani Ingla (0822EC201030)

INDORE-452001(M.P.)

(Affiliated To R.G.P.V. Bhopal Recognized By: Govt. of M.P.)



Minor Project On

#### **Home Automation System**

Minor Project Report submitted to

Rajiv Gandhi Proudyogiki Vishwavidyalaya, Bhopal

Towards partial fulfilment of the degree of

Bachelor of Technology in

Electronics and Communication Engineering

Guided By:

Dr.Megha Soni

Submitted By:

Tarun Vagle - 0822EC201032

Yogesh Yadav - 0822EC201036

Monika Gadekar - 0822EC201016

Shivam Patidar- 0822EC201029

**Project Coordinator:** 

Mr. Jayesh Dabi

INDORE-452001(M.P.)



#### Recommendation

We here by recommend that the minor project entitled" Home Automation System "submitted by Tarun Vagle, Yogesh Yadav, Shivam Patidar and Monika Gadekar is approved for the partial fulfillment of degree of Bachelor of Technology in Electronics and communication.

Principal

Dr. Pradip Patil

HOD

Dr.Megha Soni

1,000

Guide

Dr.Megha Soni

### INDORE-452001(M.P.)



#### Declaration

We Tarun Vagle, Yogesh Yadav, Shivam Patidar and Monika Gadekar Student of Swami Vivekanand college of Engineering hereby declare that this project" Home Automation System "is our unaided work with exception of guidance and ideas given by faculties of SVCE, Indore.

Name & Rollno:

Tarun Vagle - 0822EC201032

Yogesh Yadav - 0822EC201036

Monika Gadekar - 0822EC201016

Shivam Patidar- 0822EC201029

(Affiliated To R.G.P.V. Bhopal Recognized By: Govt. of M.P.)



#### Minor Project On

#### Micro Strip Antenna

Minor Project Report submitted to

Rajiv Gandhi Proudyogiki Vishwavidyalaya, Bhopal

Towards partial fulfilment of the degree of

Bachelor Of Technology

Electronics and Communication Engineering

Guided By:

Mr. Rohit Yadav

**Submitted By:** 

Arjun Gautam

Mayank Yadav

Hemendra Patidar

Hariom Choudhary

**Project Coordinator:** 

Mr. Jayesh Dabi

(Affiliated To R.G.P.V. Bhopal Recognized By: Govt. of M.P.)



#### Minor Project On

#### Micro Strip Antenna

Minor Project Report submitted to

Rajiv Gandhi Proudyogiki Vishwavidyalaya, Bhopal

Towards partial fulfilment of the degree of

Bachelor Of Technology

**Electronics and Communication Engineering** 

Guided By:

**Submitted By:** 

Mr. Rohit Yadav

Arjun Gautam

Mayank Yadav

Hemendra Patidar

Hariom Choudhary

**Project Coordinator:** 

Mr. Jayesh Dabi



#### RECOMMENDATION

We here by recommend that the minor project entitled "MICRO STRIP ANTENNA" submitted by Arjun Gautam, Mayank Yadav, Hemendra Patidar, Hariom Choudhary is approved for the partial fulfilment of degree of Bachelor of Engineering in Electronics and communication.

Dr Pradeep Patil

Dr Megha Soni

Mr. Rohit Yaday

INDORE-452001(M.P.)



#### **RECOMMENDATION**

#### Declaration

We Arjun Gautam, Mayank Yadav, Hemendra Patidar and Hariom Choudhary Student of Swami Vivekanand college of Engineering hereby declare that this project "MICRO STRIP ANTENNA" is our unaided work with exception of guidance and ideas given by faculties of SVCE, Indore.

Name & Roll no.:

Arjun Gautam (0822EC201006)

Mayank Yadav (0822EC201015)

Hemendra Patidar (0822EC201011)

Hariom Choudhary (0822EC201009)

A

#### Dissertation

Submitted in partial fulfillment for the award of Post Graduate Degree of

#### MASTER OF ENGINEERING IN ELECTRONICS AND COMMUNICATION

With specialization

In

#### **VLSI Design**

"RANDOM BINARY STREAM GENERATION FOR HARDWARE RESOURCE CONSTRAINED FINITE STATE MACHINES FOR SOCS IN BIOMEDICAL VLSI APPLICATIONS"

#### Submitted to

Rajiv Gandhi Proudyogiki Vishwavidyalaya BHOPAL (M.P.)



**Guided by:** 

**Submitted by:** 

Mr. Rohit Yadav

Divya Kanapuriya

Asst. Professor

(0822EC20ME02)

ECE Engg. Dept.

Department of Electronics and Communication Engineering SWAMI VIVEKANAND COLLEGE OF ENGINEERING,

**INDORE (M.P)** 

2022-2023

129

A
Dissertation Work
Submitted in partial fulfillment for the award of Post
GraduateDegree of
Master of
Engineering
In
VLSI Design

# "RANDOM BINARY STREAM GENERATION FOR HARDWARE RESOURCE CONSTRAINED FINITE STATE MACHINES FOR SOCS IN BIOMEDICAL VLSI APPLICATIONS"

Submitted to RAJIV GANDHI PROUDYOGIKI VISHWAVIDHYALAYA,BHOPAL (M.P.)



Session 2022-2023

Guided by
Mr. Rohit Yadav
Assistant Professor, ECE Dept.
SVCE, Indore (M.P)

Submitted by Divya Kanapuriya (0822EC20ME02) SVCE, Indore (M.P)

Department of Electronics and Communication
Engineering SWAMI VIVEKANAND COLLEGE
OF ENGINEERINGINDORE (MP)

(Affiliated to RGPV Bhopal recognized by Govt. of M.P)

## Swami Vivekanand College of Engineering, Indore. (M.P)



#### **CERTIFICATE**

This is to certify that Ms. Divya Kanapuriya (0822EC20ME02) has completed her project work, titled

# "RANDOM BINARY STREAM GENERATION FOR HARDWARE RESOURCE CONSTRAINED FINITE STATE MACHINES FOR SOCS IN BIOMEDICAL VLSI APPLICATIONS"

As per the syllabus and has submitted a satisfactory report on this project as a partial fulfillment towards the degree of

MASTER OF ENGINEERING
IN ELECTRONICS AND COMMUNICATION ENGINEERING.

Specialization

In

**VLSI Design** 

From

RAJIV GANDHI PROUDYOGIKI VISHWAVIDYALAYA, BHOPAL

0010123

Dr. Pradeep K. Patil

Guide HOD Principal

ECE Engg. Dept. S.V.C.E., Indore (M.P) S.V.C.E., Indore (M.P)

### (एम.ई छात्रो हेतु)

मै दिच्या आत्मज श्री लक्ष्मीनारायण कानापुरिया आयु 24 वर्ष निवासी ग्राम कातोरा, पोस्ट-कानापुर, खरगोन मध्य प्रदेश की निवासी होकर शपथ पूर्वक निम्न कथन करती हूँ कि -

- यह कि मैंने एम ई के विषय वी.एल.एस.आई.डिजाइन सन 2020 में स्वामी विवेकानंद कॉलेब ऑफ़ इंजीनियरिंग में प्रवेश लिया था।
- 2. मैं दिनांक 17/10/2020 से नियमित छात्रा के रूप में ज्ञातकोत्तर पाठ्यक्रम में अध्ययनरत थी।
- मै घोषणा करती हूँ कि इस पाठ्यक्रम की अविध में किसी भी अन्य निजी क्षेत्र के संस्थान / औद्योगिक समूह किसी भी कार्यालय में पूर्ण कालीन रूप से कार्यरत नहीं थी।

हस्ताक्षर शपयग्रहिता

गाइड एवं संचालक / प्राचार्य द्वारा सत्यापित किया बावे सत्यापित करते हैं कि छात्रा दिव्या नामांकन क्रमांक (0822EC29ME02) द्वारा उपरोक्त अनुसार भरी गई जानकारी प्रमाणित एवं सही है ।

संचालक / प्राचार्य

(हस्ताक्षर / पदनाम सील सहित ) स्वामी विवेकानंद कॉलेज ऑफ़ इंजीनियरिंग (0822)

#### **DECLARATION**

I hereby declare that the work, which is being presented in the dissertation, entitled "Random Binary Stream generation for Hardware Resource Constrained Finite State Machines for SOCs in Biomedical VLSI Applications" partial fulfillment of the requirements for the award of degree of Master of Engineering in Electronics and Communication Engineering with specialization in VLSI Design, submitted in the department of Electronics and Communication engineering, SVCE, Indore is an authentic record of my own work carried under the guidance of Asst. Prof. Rohit Yadav. I have not submitted the matter embodied in this report for award of any other degree.

I also declare that' "A check for Plagiarism has been carried out on the thesis/project report/dissertation and is found within the acceptable limit and report of which is enclosed herewith."

*Y* 

Name of the Student

[Divya Kanapuriya (0822EC20ME02)]

Supervisor

Director/ Principal Sign. With Seal

Mi Holley

#### APPROVAL CERTIFICATE

The dissertation entitled "Random Binary Stream generation for Hardware Resource Constrained Finite State Machines for SOCs in Biomedical VLSI Applications" being submitted by Divya Kanapuriya (0822EC20ME02) has been examined by us and is hereby approved for the award of degree "Master of Engineering in Electronics and Communication Engineering", for which it has been submitted. It is understood that by this approval the undersigned do not necessarily endorse or approve any statement made, opinion expressed or conclusion drawn therein, but approve the dissertation only for which it has been submitted.

Internal Examiner

Date: 4(2/2)

External Examination

Date:

#### **ACKNOWLEDGEMENT**

I am thankful to the technical university Rajiv Gandhi Proudyogiki Vishwavidyalaya, Bhopal for giving me opportunity to convert my theoretical knowledge into the practical skills through this project.

Any work of this magnitude requires input, efforts and encouragement of people from all sides. In compiling this project, I have been fortunate enough to get active and kind cooperation from many people without which my endeavors wouldn't have been a success. The project work has been made successful by the cumbersome effort of the faculties.

I express my profound sense of gratitude to Mr. Sachin Mishra, Director & Dr. Pradeep K. Patil, Principal, Swami Vivekanand College of Engineering, and Indore (M.P.) who was involved right from the inception of ideas to the finalization of the work.

I would like to express my deep gratitude to my project guide **Prof**. **Rohit Yadav** under whose valuable guidance, for encouraging me regularly and providing me each and every facility. I was able to execute my project smoothly.

I especially thank to **Dr. Pradeep K. Patil** for their kind support and coordination to complete my dissertation work. I am pleased to express my special thanks to my institution for their endless support and help, especially other supporting me morally throughout my work. I also heartily thanks to all other supporting staff of my institution.

Last but not the least; I am grateful to My Parents, and family members and colleagues, for their continuous support and encouragement in success of this project.

[Divya Kanapuriya]



This is to certify that Mr. Sourabh Vishwakarma (0822ME191040), Mr. Amit Prajapati (0822ME191005), Mr. Rahul Singh (0822ME191032), and Mr. Bhagirath Panwar (0822ME191006) has completed their project work, titled

"Earthquake Detector"

As per the syllabus and has submitted a satisfactory report on this project as a partial fulfilment towards the degree of

#### **BACHELOR OF TECHNOLOGY**

in Mechanical Engineering

From

RAJIV GANDHI PROUDYOGIKI VISHWAVIDYALAYA, BHOPAL

Mechanical Eng. Dept.

Mr. Manoj Sharma

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S.V.C.E., Indore (M.P)

Principal

Chandwa Road, Indon

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SVCE, INDORT



This is to certify that Mr. Pratik Pal (0822ME191027), Mr. Rohan Singh (0822ME191036), Mr. Vishal Malakar (0822ME191051) and Mr. Vipul Yadav (0822ME191050) has completed their project work, titled

"Design and Fabrication of Voice Control Robot"

As per the syllabus and has submitted a satisfactory report on this project as a partial fulfilment towards the degree of

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This is to certify that Mr. Ganesh Patidar(0822Me191012), Mr. Rahul Yaduvanshi (0822Me191033), Mr. Ritik Prajapati (0822ME191034) and Miss Shruti Shukla(0863Me191073) has completed their project work, titled

"Manufacturing of laboratory sized Magnetic Material Separator"

As per the syllabus and has submitted a satisfactory report on this project as a partial fulfilment towards the degree of

#### **BACHELOR OF TECHNOLOGY**

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This is to certify that "DEEPAK SINGH (0822ME191008), NIRAJ FARKALE (0822ME181022), PRADEEP KUSHWAH (0822ME191026), RAHUL CHOUHAN (0822ME191031)" have successfully completed Major Project

#### "TESTING OF REINFORCE POLYMER COMPOSITE"

As per the syllabus and submitted a satisfactory report on this project as a partial fulfilment towards the degree of

**Bachelor of Technology** 

In

**Mechanical Engineering** 

From

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#### Department of Mechanical Engineering

#### SWAMI VIVEKANAND COLLEGE OF ENGINEERING

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This is to certify that Sanjay Kushwah (0822ME191039), Sourabh Raghuvanshi (0822ME191046), Chanchal Verma (0822ME191007), Kuldeep Bhabar (0822ME191014) has completed their project work, titled

#### "CGL LINE ENGINEERING DRAWING"

As per the syllabus and has submitted a satisfactory report on this project as a partial fulfilment towards the degree of

**BACHELOR OF TECHNOLOGY** 

in Mechanical Engineering

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This is to certify that Mr. Aashish Patil (0822ME191001), Mr. Durgesh Nikum (0822ME191010), Mr. Shubham Rathod (0822ME191042) and Mr. Sourabh Patel (0822ME191045) has completed his project work, titled

"EQUIPMENT OF EARTHQUAKE DETECTION AND WARNING WITH VIBRATION SENSOR"

As per the syllabus and has submitted a satisfactory report on this project as a partial fulfillment towards the degree of

**BACHELOR OF TECHNOLOGY** 

MECHANICAL ENGINEERING.

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ahul Josbi

Mr. Manoj Sharma

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Dr. Pradeep Patil

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Principal

Swami Vivokanane College of Engineering



This is to certify that Mr. Nitesh Malviya (0822ME191024), Mr. Pritesh Patidar (0822ME191028), Mr. Ritik Surage (0822ME191035) and Mr. Saurabh Sahani (0822ME191047) has completed their project work, titled "CFD Analysis Of Francis Turbine"

As per the syllabus and has submitted a satisfactory report on this project as a partial fulfilment towards the degree of

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This is to certify that Mr. Lokesh chouhan (0822 Me 191016), Mr. Nitesh Vishwakarma (0822Me191023), Mr. Prithviraj Verma(0822ME191029), Mr. Vishal Vishwakarma(0822ME191053)

has completed their project work, titled

"Design & Fabrication of Portable Resistance Welding Machine"

As per the syllabus and has submitted a satisfactory report on this project as a partial fulfilment towards the degree of

### **BACHELOR OF TECHNOLOGY**

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143



This is to certify that Mr. Deepak Vishvkarma(0822ME191009), Mr. Abhishek Jamra (0822ME191002), Mr. Laxman Badole (0822ME191015), Mr. Lokesh Chouhan(0822ME191016) and Mr. Manish Kumravat(0822ME191018) has completed their project work, titled

"Scanninng Electron
Microscopy(Sem) Testing of the
Natural Fibre reinforced
Composite"

As per the syllabus and has submitted a satisfactory report on this project as a partial fulfilmenttowards the degree of

### **BACHELOR OF TECHNOLOGY**

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Department of Mechanical Engineering

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### **CERTIFICATE**

This is to certify that Abhishek Kaushal (0822ME203D01), Darshan Patil (0822ME203D04), Ajay Morya (0822ME203D02) & Vibhor Tiwari (0822ME203D16)

has completed his project work, titled

"FE-SEM and TFA Analysis of Hybrid Natural Fiber Reinforced Polymer Composite"

As per the syllabus and has submitted a satisfactory report on this project as a partial fulfillment towards the degree of

> **BACHELOR OF TECHNOLOGY** IN MECHANICAL ENGINEERING.

> > From

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Department of Mechanical Engineering Department Microre (M.P.)
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This is to certify that Mr. Mayur Verma (0822ME203D07) Mr. Nilesh Sisodiya (0822ME203D09), Pradeep Yadav (0822ME203D12) has completed their project work, titled

### Thermo Gravimetric Analysis &

FE-SEM

As per the syllabus and has submitted a satisfactory report on this project as a partial fulfillment towards the degree of

Bachelor Of Technology

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This is to certify that "Abdul Latif Multani (0805ME201001), Aniket Chouhan (0822ME201005), Ravi Yadav (0822ME201029) and Suraj Sharma (0822ME201038)" have successfully completed Minor Project-II.

"Engine modification in BAJA Vehicle"

As per the syllabus and submitted a satisfactory report on this project as a partial fulfilment towards the degree of

Bachelor of Engineering
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### **CERTIFICATE**

This is to certify that "MOHIT TOM,AR (0822ME201017), GAUTAM BHARTI (0822ME201011), DIGVIJAY PANCHAL (0822ME201010),SHUBHAM RAGHUVANSHI(0822ME201036)" have successfully completed Minor Project-II

#### "MINI AIR COMPRESSOR"

As per the syllabus and submitted a satisfactory report on this project as a partial fulfillment towards the degree of

Bachelor of Engineering

In

**Mechanical Engineering** 

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### **CERTIFICATE**

This is to certify that "HASAN MULTANI (0822ME201021), SHAHBAZ QURESHI (0822ME201034), AMEEN MANSURI (0822ME201004)" have successfully completed Minor Project-IL

#### "ROLLER BENDING MACHINE"

As per the syllabus and submitted a satisfactory report on this project as a partial fulfilment towards the degree of

> **Bachelor of Engineering Mechanical Engineering** From Rajiv Gandhi Proudyogiki Vishwavidyalaya, Bhopal

Prof. Priyanka Potghan

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Department of Mechanical Engineering Dupar chierria Color of Engineering INDURF HOD

Mr. Manoj Sharma,

Mechanical Dept.



This is to certify that "Goutam Dhangar (0805ME201007), Ankit Panchal (0822ME201006) and Madhusudan Yadav (0822ME201017)", have successfully completed MinorProject-II.

"Magnetic Seperator"

As per the syllabus and submitted a satisfactory report on this project as a partial fulfilment towards the degree of

**Bachelor of Engineering** 

In

**Mechanical Engineering** 

From

Rajiv Gandhi ProudyogikiVishwavidyalaya,Bhopal

Mr. Vishal Wankade

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Mr. Manoj Sharma

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**SVCE** 

### SWAMI VIVEKANAND COLLEGE OF ENGINEERING INDORE (M.P.)



This is to certify that "GAURAV PAL (0822ME201013), YUVRAJ GOUD (0822ME201041), TARUN SHRIVANSH (0822ME201039) " have successfully completed MinorProject-II.

"Battery Charger With Stirling Engine"

As per the syllabus and submitted a satisfactory report on this project as a partial fulfilment towards the degree of

**Bachelor of Engineering** 

In

Mechanical Engineering

From

Rajiv Gandhi ProudyogikiVishwavidyalaya,Bhopal

Dr. RAHUL JOSHI

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Mechanical Dept.

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### **CERTIFICATE**

This is to certify that "Abhay Verma (0822ME213D01), Ashutosh Dwivedi (0822ME213D03), Ganesh Dayma (0822ME213D04), Ronak Kokane (0822ME213D10), Sarvesh Zamindar (0822ME213D117), Vipul Kale (0822ME213D15) and Rameshwar Awasarmol (0822ME201028)

" have successfully completed Minor Project-I.

"Coir Fiber, Composite, Hand layup"

As per the syllabus and submitted a satisfactory report on this project as a partial fulfilment towards the degree of

Bachelor of Engineering In Mechanical Engineering From

Rajiv Gandhi Proudyogiki Vishwavidyalaya, Bhopal

Prof. Mr. Manoj Sharma

Head

Mr. Manoj Sharma

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Department of Mechanical Engineering swami Vivekarand Goldon of Engineering, INDUSE

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This is to certify that "Sourabh Vishwakarma (0822ME201037), Hariom Nagar (0822ME201015), Meraj Aalam Ali (0822ME201020), Rameshwar Awasarmol (0822ME201028), Anshul Sharma (0822ME201007)" have successfully completed MinorProject-II.

"Progressive Die for Manufacturing"

As per the syllabus and submitted a satisfactory report on this project as a partial fulfilment towards the degree of

**Bachelor of Engineering** 

In

**Mechanical Engineering** 

From

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Mr. Rahul Nandwal

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Mr. Manoj Sharma

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This is to certify that "Ganesh Dayma (0822ME213D04), Ronak Kokane (0822ME213D10), Vipul Kale (0822ME213D15), Savan (0822ME213D12), Abhishek Raj (0822ME213D02)" have successfully completed MinorProject-II.

"Solar Dryer"

As per the syllabus and submitted a satisfactory report on this project as a partial fulfilment towards the degree of

**Bachelor of Engineering** 

In

**Mechanical Engineering** 

From

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This is to certify that "Krishna Mahajan (0822ME213D05), Pooja Varma (0822ME213D08), Pratham Vishwakarma (0822ME213D09), Ashutosh Dwivedi (0822ME213D03)", have successfully completed MinorProject-II.

"Abrasive jet machine" As per the syllabus and submitted a satisfactory report on this project as a partial fulfilment towards the degree of **Bachelor of Engineering** 

In

**Mechanical Engineering** 

From

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SWAMI VIVEKANAND COLLEGE OF ENGINEERING INDORE (M.P.)

Department of Mechanical Engineering

# SWAMI VIVEKANAND COLLEGE OF ENGINEERING INDORE (M.P.)

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### **CERTIFICATE**

This is to certify that "Neeraj Moree, Aman Tilotiya and Piyush Kadoliya" have successfully completed Minor Project-TI

#### "CAN CRUSHER"

As per the syllabus and submitted a satisfactory report on this project as a partial fulfilment towards the degree of

Bachelor of Engineering
In
Mechanical Engineering
From
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्राह्मलेख, विषय

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## Swami Vivekanand College of Engineering, Indore. (M.P)



### **CERTIFICATE**

This is to certify that Mr. Deepak Parmar (0822ME17ME03) has completed his project work, titled

"ANALYSIS OF SHEET METAL DURING BENDING APPLICATION IN PUNCH PRESS USING ANSYS"

As per the syllabus and has submitted a satisfactory report on this project as a partial fulfillment towardsthe degree of

MASTER OF ENGINEERING

IN MECHANICAL ENGINEERING.

Specialization

In

**Design of Mechanical Systems** 

From

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Dr. Rahul Joshi

Mr. Manoj Sharma

Dr. Pradeep Kumar Patil

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H.O.D.

Principal

S.V.C.E., Indore (M.P)

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# Swami Vivekanand College of Engineering,

Indore. (M.P)



## **CERTIFICATE**

This is to certify that Mr. Ankesh Dubey (0822ME18ME02) has completed his project work, titled

"Free Vibrational Analysis in Composite

Derive Shaft with Optimization of Vibrational Natural Frequency Using Anova Method"

As per the syllabus and has submitted a satisfactory report on this project as a partial fulfillment towards the degree of

# MASTER OF ENGINEERING IN MECHANICAL ENGINEERING.

Specialization

In

**Design of Mechanical Systems** 

From

RAJIV GANDHI PROUDYOGIKI VISHWAVIDYALAYA, BHOPAL

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Mr. Manoj Sharma

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HOD Head

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andre Read Neer Toll Nake Joseph A5284

### Swami Vivekanand College of Engineering,

Indore. (M.P)



### **CERTIFICATE**

This is to certify that Mr. Bharat Singh Baghel (0822ME20ME02) has completed his project work, titled.

"ANALYSIS OF WEAR RESISTANCE LINERS FOR INCREASING LIFE CYCLE OF INDUSTRIAL STEEL PARTS"

As per the syllabus and has submitted a satisfactory report on this project as a partial fulfilment towards the degree of

# MASTER OF ENGINEERING IN MECHANICAL ENGINEERING.

Specialization

In

**Design of Mechanical Systems** 

From

RAJIV GANDHI PROUDYOGIKI VISHWAYIDYALAYA, BHOPAL

HOD

Mr. Rahul Nandwal - Dr. Mayank Ladha - Mr. Manoj Sharma

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PRINCIPAL 8WAMI VIVEKANAND COLLEGE OF ENGINEERING KHANDWA ROAD, INDORE

# Swami Vivekanand College of Engineering, Indore. (M.P)



### **CERTIFICATE**

This is to certify that Mr. Anup Kumar Dubey (0822ME18ME04) has completed his project work, titled

"Modeling and Performance of Engine Connecting Rod Using Ansys"

As per the syllabus and has submitted a satisfactory report on this project as a partial fulfillment

to wards the degree of

MASTER OF ENGINEERING

IN

**MECHANICAL ENGINEERING** 

Specialization

In

**DESIGN OF MECHANICAL SYSTEMS** 

FromRAJIV GANDHI PROUDYOGIKIVISHWAVIDYALAYA, BHOPAL

Dr. Rahul-Joshi

Guide

Mechanical Engg. Dept.

Dr. Mayank Ladha

HOD

S.V.C.E., Indore (M.P.)

Dr. Pradeep Kr Patil

Principal

S.V.C.E., Indore (M.P)

Principal 1

Department of Mechanical Engineering in Vivekamand swami Vivekamand Cellege of Engineering Khandwa Road Indian

160

# DESIGN AND IMPLEMENTATION OF TRAFFIC MANAGEMENT SYSTEM



A

Dissertation-2

Submitted to the

Rajiv Gandhi Proudyogiki Vishwavidyalaya Bhopal (M. P.)

In partial fulfillment of the requirement for the degree of

Bachelor of Technology

In

Electrical & Electronics Engineering

Guided by

Prof. Manisha Gaur

Submitted by

Akshant Dandak(0822EX191002) Anisar senani(0822EC191006) Manish Kumar(0822EX191010) Mohit Engla(0822EX191011)

Department of Electrical & Electronics Engineering Swami Vivekanand College of Engineering, Indore (M.P.), India

### Swami Vivekanand College of Engineering, Indore (M.P.), India

### Department of Electrical & Electronics Engineering



Jan - June' 2023

### Recommendation

This is to certify that dissertation-2 entitled "Design and implementation of traffic management sysytem" submitted by Akshant DanDak(0822ex191002), Anisar Senani(0822ex191006), Manish Kumar(0822ex191010), Mohit engla(0822ex191011) have been carried out under my guidance and supervision. The dissertation is approved for submission towards partial fulfillment for the award of the degree of Bachelor of Technology in Electrical & Electronics Engineering

It is further certified that this work has not been submitted for the award of any other degree or diploma.

SHOON SHOW

**Dr. Pradeep Patil**Principal
SVCE, Indore

Forwarded by

Prof. Hemendra Khedeka Head, Department of EX SVCE, Indore

# Swami Vivekanand College of Engineering, Indore (M.P.), India Department of Electrical & Electronics Engineering



Jan - June' 2023

### Certificate

This is to certify that this Major Project entitled "Design and implementation of traffic management sysytem" submitted by Akshant DanDak(0822ex191002), Anisar Senani(0822ex191006), Manish Kumar(0822ex191010), Mohit engla(0822ex191011) are accepted for the partial fulfillment of the requirement for the award of the degree of Bachelors of Engineering in Electrical & Electronics Engineering.

I Kaminer:

PHOON!

Date: 1-15/23

# DESIGN AND FABRICATION OF OBSTACLE AVOIDANCE CAR



A

Dissertation-2

Submitted to the

Rajiv Gandhi Proudyogiki Vishwavidyalaya

Bhopal (M. P.)

In partial fulfillment of the requirement for the degree of

Bachelor of Technology

In

Electrical & Electronics Engineering

Guided by

Prof. Manisha Gaur

Submitted by

Bhushan Mahajan - 08822EX191007 Amit Rathod - 08822EX191005

Sawan Kushwah – 0822EX191012 Aman singh patel -0822EX191001

Department of Electrical & Electronics Engineering Swami Vivekanand College of Engineering, Indore (M.P.), India

Swami Vivekanand College of Engineering, Indore (M.P.), India

Department of Electrical & Electronics Engineering



Jan - June' 2023

### Recommendation

This is to certify that dissertation-2 entitled "Design and fabrication of Obstacle avoidance Car" submitted by Bhushan Mahajan (0822EX191007), Amit Rathod (08822EX191005), Sawan Kushwah (0822EX191012) and Aman singh patel (0822EX191001) has been carried out under my guidance and supervision. The dissertation is approved for submission towards partial fulfillment for the award of the degree of Bachelor of Technology in Electrical & Electronics Engineering It is further certified that this work has not been submitted for the award of any other degree or diploma.

Dr. Pradeep Patil
Principal
SVCE, Indore

Forwarded by

Prof. Hemendra Khedeka Head, Department of EX SVCE, Indore

Swami Vivekanand College of Engineering, Indore (M.P.), India Department of Electrical & Electronics Engineering



Jan - June' 2023

### Certificate

This is to certify that this Major Project entitled "Design and fabrication of Obstacle avoidance Car" submitted by Bhushan Mahajan (0822EX191007), Amit Rathod( 08822EX191005), Sawan Kushwah( 0822EX191012) and Aman singh patel(0822EX191001) is accepted for the partial fulfillment of the requirement for the award of the degree of Bachelors of Engineering in Electrical & Electronics Engineering.

Internal Examiner:

Date: 10 . 1.23

External Examiner:

Date: 10/5/23

# **Electricity Generation By Waste Material**



Session: Jan–June 2023 A Major Project

Rajiv Gandhi Proudyogiki Vishwavidyalaya Bhopal (M.P.)

In Partial fulfillment of the requirement for the degree of

Bachelor of Technology

In

Electrical and Electronics Engineering

Supervised by

Prof. Manisha Gaur

Submitted by

Student Name

Abhishek Singh Kuswaha (0822EX191001)

Bhagwan Singh Mandloi(0822EX191006)

Deepak Birla(0822EX191008)

Jaypal Patel(0822EX191009)

Vikash Khande(0822EX203D11)

1

# SWAMI VIVEKANAND COLLEGE OF ENGINEERING INDORE-452001(M.P.)



### Recommendation

This is to certify that the major project entitled Electricity Generation By Waste Material. Submitted by Abhishek Singh Kushwaha(0822EX191001), Bhagwan Singh Mandloi(0822EX191006), Deepak Birla(0822EX191008), Jaypal Patel(0822EX191009) and Vikash Khande(0822EX203D11) students of B. Tech fourth year of Electrical and Electronics engineering department, in the year 2023 is a satisfactory account of work based on syllabus, which is approved for the partial fulfillment of degree of bachelor of Engineering.

Date: | | duigho | 2 3 | | Internal Examiner : -

Date fossible Extral Examiner:

3

# SWAMI VIVEKANAND COLLEGE OF ENGINEERING INDORE-452001(M.P.)



### **Certificate**

We hereby recommend that the major project entitled "Electricity Generation By Waste Material" submitted by Abhishek Singh Kushwaha(0822EX191001), Bhagwan Singh Mandloi(0822EX191006), Deepak Birla(0822EX191008), Jaypal Patel(0822EX191009), and Vikash Khande(0822EX203D11) is approved for the partial fulfillment of degree of Bachelor of Engineering in Electrical and Electronics.

EXTERNAL

Prof. Hemendra Khedekar

Guide

Prof. Manisha Gaur

## 'Generation of Electricity by Speed Breaker,



#### Dissertation-2

#### Submitted to the

Rajiv Gandhi Proudyogiki Vishwavidyalaya
Bhopal (M. P.)

In partial fulfillment of the requirement for the degree of

Bachelor of Technology

111

Electrical & Electronics Engineering

Guided by

Prof. Hemendra Khedekar

Submitted by

Ankit Jaiswal 0822EX203D02 Shivani Fulmali 0822EX203D08 Sufiyan Ansari 0822EX203D09

Department of Electrical & Electronics Engineering Swami Vivekanand College of Engineering, Indore (M.P.), India

### Swami Vivekanand College of Engineering, Indore (M.P.), India

### Department of Electrical & Electronics Engineering



Jan - June' 2023

### Recommendation

This is to certify that dissertation-2 entitled "Generation of Electricity by Speed Breaker" submitted by (Ankit Jaiswal 0822EX203D02)/(Shivani Fulmali 0822EX203D08)/(Sufiyan Ansari 0822EX203D09) has been carried out under my guidance and supervision. The dissertation is approved for submission towards partial fulfillment for the award of the degree of Bachelor of Technology in Electrical & Electronics Engineering

It is further certified that this work has not been submitted for the award of any other degree or diploma.

Dr. Pradeep Patil

Principal SVCE, Indore

Forwarded by

Prof. Hemendra Khedeka

Head, Department of EX SVCE, Indore

Swami Vivekanand College of Engineering, Indore (M.P.), India
Department of Electrical & Electronics Engineering



Jan - June' 2023

Certificate

This is to certify that this Major Project entitled "Generation of Electricity by Speed Breaker" submitted by (Ankit Jaiswal 0822EX203D02)/(Shivani Fulmali 0822EX203D08)/(Sufiyan Ansari 0822EX203D09) is accepted for the partial fulfillment of the requirement for the award of the degree of Bachelors of Engineering in Electrical & Electronics Engineering.

Internal Examiner:

Date: 10.105/23

External Examiner:

Date: 1915/63

### "Vertical Axis Wind Turbine"



A

Minor Project

Submitted to the

Rajiv Gandhi Proudyogiki Vishwavidyalaya

Bhopal (M. P.)

In partial fulfillment of the requirement for the degree of

Bachelor of Technology

111

Electrical & Electronics Engineering

Guided by

しょくしょくしゅん しょくしゅ

Submitted by

Prof. Hemendra Khedekar

Aayush Soni (0822EX201001)

Prof. Manisha Gaur

Abhay Ambore(0822EX201002)

Jay Singh Rajput (0822EX201007)

Department of Electrical & Electronics Engineering

Swami Vivekanand College of Engineering, Indore (M.P.), India

# Swami Vivekanand College of Engineering, Indore (M.P.), India

### **Department of Electrical & Electronics Engineering**



Jan - June 2023

### Recommendation

This is to certify that Minor Project entitled "Vertical Axis Wind Turbine" submitted by Aayush Soni (0822EX201001), Abhay Ambore (0822EX201002), Jay Singh Rajput (082EX201007) has been carried out under my guidance and supervision. The MinorProject is approved for submission towards partial fulfillment for the award of the degree of Bachelor of Technology in Electrical & Electronics Engineering.

It is further certified that this work has not been submitted for the award of any other degree or diploma.

Dr. Pradeep Patil
Principal
SVCE, Indore

Forwarded by

Prof. Hemendra Khedeka Head, Department of EX SVCE, Indore

# "Project Name" CLAP SWITCH



A

Minor Project
Submitted to the

Rajiv Gandhi Proudyogiki Vishwavidyalaya

Bhopal (M. P.)

In partial fulfillment of the requirement for the degree of

Bachelor of Technology

In

Electrical & Electronics Engineering

Guided by

Submitted by

Prof.Mr.Hemendra Khedekar

Akhilesh Malakar (0822EX201003) Shriram Malviya (0822EX201012) Shubham Malakar (0822EX201013) Siddhant Verma (0822EX201014)

### Department of Electrical & Electronics Engineering Swami Vivekanand College of Engineering, Indore (M.P.), India

Swami Vivekanand College of Engineering, Indore (M.P.), India

## Department of Electrical & Electronics Engineering



Jan - June 2023

### Recommendation

This is to certify that Minor Project entitled "CLAP SWITCH" submitted by Akhilesh Malakar(0822 EX201003). Shriram Malviya (0822EX201012). Shubham Malakar (0822EX201013). Siddhant Verma (0822EX201014) has been carried out under my guidance and supervision. The Minor Project is approved for submission towards partial fulfillment for the award of the degree of Bachelor of Technology in Electrical & Electronics Engineering.

It is further certified that this work has not been submitted for the award of any other degree or diploma.

Dr. Pradeep Patil Principal SVCE. Indore

Forwarded by

Prof.Hemendra Khedekar Head, Department of EX SVCE Indore

### "Counting Machine"



A

Minor Project

Submitted to the

Rajiv Gandhi Proudyogiki Vishwavidyalaya

Bhopal (M. P.)

In partial fulfillment of the requirement for the degree of

Bachelor of Technology

In

Electrical & Electronics Engineering

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Prof.(Hemendra Khedekar)

Amit Patel (0822EX201005) Samarth Bansal (0822EX201011) Rahul Sawner (0822EX201008) Vijay Sisodiya (0822EX201015)

Department of Electrical & Electronics Engineering

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# Swami Vivekanand College of Engineering, Indore (M.P.), India

### Department of Electrical & Electronics Engineering



Jan – June 2023

### Recommendation

This is to certify that Minor Project entitled "Counting Machine" submitted by Amit Patel(0822EX201005), SamarthBansal(0822EX201011), RahulSawner(0822EX201008), Vij ay Sisodiya (0822EX201015) has been carried out under my guidance and supervision. The Minor Project is approved for submission towards partial fulfillment for the award of the degree of Bachelor of Technology in Electrical & Electronics Engineering.

It is further certified that this work has not been submitted for the award of any other degree or diploma.

Dr. Pradeep Patil
Principal
SVCE, Indore

Forwarded by

Prof. Hemendra Khedekar Head, Department of EX SVCE, Indore

## "MODEL OF THERMAL POWER PLANT"



A

**Minor Project** 

Submitted to the

Rajiv Gandhi Proudyogiki Vishwavidyalaya

Bhopal (M. P.)

In partial fulfillment of the requirement for the degree of

Bachelor of Technology

In

Electrical & Electronics Engineering

Guided by

**Prof.**(Hemendra khedekar)

Submitted by

Rohit kapoor (0822EX213D06) Himanshu Gupta (0822EX213D04 Uday Tomar (0822EX213D10) Shivam Kumrawat (0822EX213D08)

Department of Electrical & Electronics Engineering Swami Vivekanand College of Engineering, Indore (M.P.), India

Swami Vivekanand College of Engineering, Indore (M.P.), India

# Department of Electrical & Electronics Engineering



Jan - June 2023

#### Recommendation

This is to certify that Minor Project entitled "Model Of thermal power plant" submitted by Rohit Kapoor (0822EX213D06) has been carried out under my guidance and supervision. The Minor Project is approved for submission towards partial fulfillment for the award of the degree of Bachelor of Technology in Electrical & Electronics Engineering.

It is further certified that this work has not been submitted for the award of any other degree or diploma.

**Dr. Pradeep Patil**Principal
SVCE, Indore

Forwarded by

Prof. Hemendra Khedekár Head, Department of EX SVCE, Indore

# "SECURITY ALARM"



A

**Minor Project** 

Submitted to the

Rajiv Gandhi Proudhyogiki Vishwavidyalaya

Bhopal (M.P.)

In partial fulfillment of the requirement for the degree of

Bachelor of Technology

in Electrical & Electronics Engineering

Guided by Prof. Hemendra Khedekar

Submitted by RAHUL NEMADE(0822EX201009) DHARMENDRA SOLANKI(0822EX213D03 RAMAN CHOUDHARY(0822EX201010)

# Department of Electrical & Electronics Engineering

Swami Vivekanand College of Engineering, Indore(M.P.), India

#### Swami Vivekanand College of Engineering, Indore (M.P.), India Department of Electrical & Electronics Engineering



Jan - June 2023

#### Recommendation

This is to certify that Minor Project entitled "Motion Detector Security Alarm" submitted by Dharmendra Solanki (0822EX213D003)has been carried out under my guidance and supervision. The Minor Project is approved for submission towards partial fulfillment for the award of the degree of Bachelor of Technology in Electrical & Electronics Engineering. It is further certified that this work has not been submitted for the award of any other degree or diploma.

**Dr. Pradeep Patil**Principal
SVCE, Indore

Forwarded by

Prof. Hemendra Khedekar Head, Department of EX SVCE, Indore

# "Design & Simulation of a Decoupling STATCOM (D-STATCOM) for improving the power (Wind) quality in Power System "



#### A

#### **Dissertation-II**

#### Submitted to the

Rajiv Gandhi Proudyogiki Vishwavidyalaya Bhopal (M. P.)

In partial fulfillment of the requirement for the degree of

Master of Technology

In

Power System

Supervised by

Submitted by

Prof. Hemendra Khedekar

Lokesh Patidar (0822EE20MT09)

Department of Electrical & Electronics Engineering Swami Vivekanand College of Engineering, Indore (M.P.), India Session Jan-June- 2023

•

# "Design & Simulation of a Decoupling STATCOM (D-STATCOM) for improving the power (Wind) quality in Power System "



A

**Dissertation-II** 

Submitted to the

Rajiv Gandhi Proudyogiki Vishwavidyalaya

Bhopal (M. P.)

In partial fulfillment of the requirement for the degree of

Master of Technology

In

Power System

Supervised by

Submitted by

Prof. Hemendra Khedekar

Lokesh Patidar (0822EE20MT09)

Department of Electrical & Electronics Engineering Swami Vivekanand College of Engineering, Indore (M.P.), India Session Jan-June- 2023

#### Swami Vivekanand College of Engineering, Indore (M.P.), India Department of Electrical & Electronics Engineering



Jan-June-2023

#### Recommendation

This is to certify that **project** entitled "**Design & Simulation of a Decoupling STATCOM** (**D-STATCOM**) for improving the power quality in Power System" submitted by **Lokesh Patidar** (**0822EE20MT09**) has been carried out under my guidance and supervision. The dissertation is approved for submission towards partial fulfillment for the award of the degree of **Master of Technology** in **Power System**.

It is further certified that this work has not been submitted for the award of any other degree or diploma.

Forwarded by

**Prof.Hemendra Khedekar** 

Supervisor & Head, Dept. of EX

SVCE, Indore

**Dr. Pradeep Patil**Principal
SVCE, Indore

### Swami Vivekanand College of Engineering, Indore (M.P.), India Department of Electrical & Electronics Engineering



Jan-June-2023

# **Approval Certificate**

This is to certify that this project is entitled "Design & Simulation of a Decoupling STATCOM (D-STATCOM) for improving the power quality in Power System" Submitted by Lokesh Patidar (0822EE20MT09) accepted for the partial fulfillment of the requirement for the award of the degree of Master of Technology in Power System.

Internal Examiner:

Date: 11/01/2023

External Examiner:

anale choube

Date: 11/01/2023

Abstract

Today the time of new changes adding in technology because one of the primary needs for socio-

economic development in any nation in the world is the provision of reliable electricity supply

systems. Worldwide, fossil fuels are still dominating in generating energy. Out of available

renewable energy sources, Wind energy is becoming less costly option for new power generating

unit with the increasing number of new locations and new markets. According to [9], 76% of

global energy is supplied using Non-Renewable Energy Resources (fossil fuels + Nuclear) and

rest 24% is generated using Renewable Sources as shown in fig. 1.1. Wind energy simply means

kinetic energy of air in motion, air flown on the earth due to uneven heating of the Earth's surface

by radiant energy from the sun. We know that the Earth's surface is containing very different

types of land and lots of water (approximately earth 71% surface covered by water). It sucks up

the sun's energy at unusual rates means the sun heat is not uniformly distributed over the earth's

surface. Wind or flow of air on earth is caused by massive convection currents in the atmosphere.

As long as the sun heats up the earth, there will be wind energy available on the earth.

The main objective of this work is the design of a Decoupling STATCOM (D-STATCOM) for

improving the power quality of the electrical energy generated through wind turbines. It is a well

known fact that the use of conventional STATCOM can't increase the amount of active and

reactive components of Power simultaneously. If one increases, the other decreases. The

DSTATCOM is an effective technique to circumvent the same. Thus the primary objective of the

proposed work is to attain power quality improvement using Decoupling STATCOM.

**Keywords: STATCOM, MATLAB, Simulation, Renewable sources** 

i

"Role of Smart Grid Technology to improve the quality of power supply in Power System"



A

#### **Dissertation-II**

#### **Submitted to the**

Rajiv Gandhi Proudyogiki Vishwavidyalaya Bhopal (M. P.)

In partial fulfillment of the requirement for the degree of

Master of Technology

In

Power System

Supervised by

Submitted by

Prof. Hemendra Khedekar

Vesta Kanesh (0822EE20MT14)

Department of Electrical & Electronics Engineering Swami Vivekanand College of Engineering, Indore (M.P.), India Session Jan-June- 2023

•

# "Role of Smart Grid Technology to improve the quality of power supply in Power System"



### A Dissertaion-II

#### Submitted to the

Rajiv Gandhi Proudyogiki Vishwavidyalaya Bhopal (M. P.)

In partial fulfillment of the requirement for the degree of

Master of Technology

In

Power System

Supervised by

Submitted by

Prof. Hemendra Khedekar

Vesta Kanesh (0822EE20MT14)

Department of Electrical & Electronics Engineering Swami Vivekanand College of Engineering, Indore (M.P.), India Session Jan-June- 2023

#### Swami Vivekanand College of Engineering, Indore (M.P.), India Department of Electrical & Electronics Engineering



Jan-June-2023

#### Recommendation

This is to certify that **project** entitled "Role of Smart Grid Technology to improve the quality of power supply in Power System" submitted by Vesta Kanesh (0822EE20MT14) has been carried out under my guidance and supervision. The dissertation is approved for submission towards partial fulfillment for the award of the degree of Master of Technology in Power System.

It is further certified that this work has not been submitted for the award of any other degree or diploma.

Forwarded by

**Prof.Hemendra Khedekar** 

Supervisor & Head, Dept. of EX SVCE, Indore

**Dr. Pradeep Patil**Principal
SVCE, Indore

190

### Swami Vivekanand College of Engineering, Indore (M.P.), India Department of Electrical & Electronics Engineering



Jan-June-2023

## **Approval Certificate**

This is to certify that this **Project** entitled "Role of Smart Grid Technology to improve the quality of power supply in Power System" Submitted by Vesta Kanesh (0822EE20MT14) accepted for the partial fulfillment of the requirement for the award of the degree of Master of Technology in Power System.

**Internal Examiner:** 

Date: 11/01/2023 Date: 11/01/2023

farak chouse

**External Examiner:** 

**Abstract** 

The Indian population are increasing day by day and energy demand are also increasing

exponentially but the conventional energy sources are limited and exhaustible, not eco friendly

and more power loss in conventional Grid Technology, power supply also interrupted due to

dependency on one source of energy. Today the time of new innavtions in the field of technology

because one of the primary needs for socio-economic development in any nation & all over the

world is the provision of reliable electricity supply systems. The modernization of traditional Grid

system is requirement of modern era because uninterrupted electricity is the basic need of

development

The main objective of my reaserch work is to analysed the need of modernization of Grid

technology by smart grid technology. To modernize the all Grid system first we proposed the

small solar-wind On Grid Hybrid system.

Using HOMER software for simulation & optimization of the Solar-Wind On-Grid hybrid system

and cost analysis significant of smart grid, comparision between conventional & Smart Grid

system. MATLAB software is used for simulation of modified boost converter for variable input.

Key Words: Smart Grid, HOMER, Hybrid System, On-Grid, Smart Meter, MATLAB

# "Inhancement of New Technology in Renewable Power Generation using Nano Antenna based solar PV system"



#### A

#### **Dissertation**

#### Submitted to the

Rajiv Gandhi Proudyogiki Vishwavidyalaya Bhopal (M. P.)

In partial fulfillment of the requirement for the degree of

Master of Technology
In
Power System

Supervised by

Submitted by

Prof. Hemendra Khedekar

Rahul Rathore (0822EE18MT09)

Department of Electrical & Electronics Engineering Swami Vivekanand College of Engineering, Indore (M.P.), India Session June-Dec- 2022

# "Inhancement of New Technology in Renewable Power Generation using Nano Antenna based solar PV system"



A

**Dissertation** 

Submitted to the

Rajiv Gandhi Proudyogiki Vishwavidyalaya

Bhopal (M. P.)

In partial fulfillment of the requirement for the degree of

Master of Technology

In

**Power System** 

Supervised by

Submitted by

Prof. Hemendra Khedekar

Rahul Rathore (0822EE18MT09)

Department of Electrical & Electronics Engineering Swami Vivekanand College of Engineering, Indore (M.P.), India Session June-Dec- 2022

#### Swami Vivekanand College of Engineering, Indore (M.P.), India

#### **Department of Electrical & Electronics Engineering**



June-Dec-2022

#### Recommendation

This is to certify that dissertation entitled "Inhancement of Technology in Renewable Power Generation using Nano Antenna based solar PV system" submitted by Rahul Rathore (0822EE18MT09) has been carried out under my guidance and supervision. The dissertation is approved for submission towards partial fulfillment for the award of the degree of Master of Technology in Power System.

It is further certified that this work has not been submitted for the award of any other degree or diploma.

Forwarded by

Prof.Hemendra Khedekar

Supervisor & Head, Dept. of EX SVCE, Indore

Dr. Pradeep Patil Principal SVCE, Indore

#### Swami Vivekanand College of Engineering, Indore (M.P.), India Department of Electrical & Electronics Engineering



June-Dec-2022

## **Approval Certificate**

This is to certify that this Dissertation entitled "Inhancement of Technology in Renewable Power Generation using Nano Antenna based solar PV system" Submitted by Rahul Rathore (0822EE18MT09) accepted for the partial fulfillment of the requirement for the award of the degree of Master of Technology in Power System.

**Internal Examiner:** 

Date: 15/07/2022 Date: 15/07/2022

**External Examiner:** 

**Abstract** 

Solar energy and wind energy have been deemed clean, inexhaustible, unlimited and

environmental friendly, But wind and solar sources is dependent on unpredictable factors such as

weather and climatic conditions therefore solar-wind hybrid system is best system for continous

energy supply throught whole year.

Today the time of new changes adding in technology because one of the primary needs for socio-

economic development in any nation in the world is the provision of reliable electricity supply

systems. The Indian population are increasing day by day and energy demand are also increasing

exponentially but the conventional energy sources are limited and exhaustible, not eco friendly...

The electricity generation using Nano antenna based solar PV system is best in present era

because all world's countries are focuced on installing eco-friently power generation

system. Present time old system are replaced by new smart systems. The solar system is best for

electricity generation but when this system connect with on & off grid system a smart grid system

required.

The main objective of my reaserch work is to analysed the significant of Nano antenna based

statnd alone solar PV system.

Using HOMER software for simulation & optimization of the solar system and cost analysis.

MATLAB software is used for simulation of boost converter for variable input.

Keywords: HOMER, MATLAB, Simulation, Nano Antenna, Boost Converter, PV solar model

# SWAMI VIVEKANAND COLLEGE OF ENGINEERING, INDORE

**MBA** Department



## A MAJOR RESEARCH PROJECT ON: RECENT TRENDS IN DIGITAL MARKETING

٨ Dissertation Submitted to

Devi Ahilya Vishwavidyalaya, Indore

Towards the partial fulfillment of requirement for the award of degree Of

Masters of business administration [full time] 2022-23

**Guided By** Assistant Prof. Jyoti Jayaswal **Head of Department** MBA

**Submitted BY** Kajal Thakur Roll No. 211890013 SVCE.MBA

# SWAMI VIVEKANAND COLLEGE OF ENGINEERING, INDORE

**MBA Department** 

#### CERTIFICATE

This is to certify that the MRP entitled RECENT TRENDS IN DIGITAL MARKETING has been accomplished by.KAJAL THAKUR under my guidance and supervision.

This MRP is being submitted by him in the partial fulfillment of the requirement for the award of the degree Of Masters of business administration [full time] from Devi Ahilya Vishwavidyalaya, Indore

To the best of my knowledge and belief this work has not been submitted by **him** anywhere else for the reward of any degree or diploma without proper citation.

Project Guide

Assistant prof. Jyoti Jayaswal

Head of Department (MBA)

External Examiner

**Principal** 

Department of Master of Business Administration

Swami Vivekanand College of Engineering, Indore

## DECLARATION

I have tried my level best in making this project useful, pragmatic & successful. I have tried to provide the accurate information to the best of my knowledge. The data collected is primary, authentic & analyzed by me.

I hereby declare that project emittled "RECENT TRENDS IN DIGITAL MARKETING" is authentic & I have put in my efforts meticulously to make this project to come up the expectations and pragmatically viable.

T				

Place:

(Kajal Thakur)

3 | Page

## ACKNOWLEDGEMENT

The duration of the project report was the one etched in my memory for the long time to come. I do have certain people to thank for it being a memorable experience.

I thank the Head of the Department **Jyoti Jayaswal** who has been a source of inspiration for given me the opportunity to study on my project.

I would also like to thank **Assistant Prof. Jyoti Jayaswal** my guide who has been present as pillar of support and guidance throughout the project period. I am indeed indebted to **him** for the experience and information **he** shared with me. **His** suggestions and comments have made the report more valuable.

I would like to thank my family members, my friends and entire staff of MBA department for making the atmosphere amicable and make me feel at ease at the time of stress.

At last I am thankful to all those persons who help me directly and indirectly to cover the wide aspect of Research Project.

With Sincere Thanks

(Kajal Thakur)



# SWAMI VIVEKANAND COLLEGE OF ENGINEERING, INDORE

**MBA** Department



#### A MAJOR RESEARCH PROJECT ON:

#### A STUDY OF CUSTOMER SATISFACTION REGARDING ATM SERVICE OF SBI AND PNB

A Dissertation Submitted to

Devi Ahilya Vishwavidyalaya, Indore

Towards the partial fulfillment of requirement for the award of degree Of

Masters of business administration [full time]

2022-23

Guided By:

Assistant Prof. Jyoti Jayaswal

Head of department

**MBA** 

Submitted By:

Kalpana Suman

Roll no.- 211890006

SVCE, MBA

i

#### SWAMI VIVEKANAND COLLEGE OF ENGINEERING, INDORE

MBA Department

#### **CERTIFICATE**

This is to certify that the MRP entitled "The impact of SAP (ERP) system in operations and total quality management" has been accomplished by MISS. KALPANA SUMAN under my guidance and supervision.

This MRP is being submitted by him in the partial fulfillment of the requirement for the award of the degree Of Masters of business administration [full time] from Devi Ahilya Vishwavidyalaya, Indore

To the best of my knowledge and belief this work has not been submitted by him anywhere else for the reward of any degree or diploma without proper citation.

**Project Guide** 

Assistant prof. Jyoti Jayaswal

Head of Department (MBA)

**External Examiner** 

#### **Principal**

Department of Master of Business Administration Swami Vivekanand College of Engineering, Indore

#### **DECLARATION**

I have tried my level best in making this project useful, pragmatic & successful. I have tried to provide the accurate information to the best of my knowledge. The data collected is primary, authentic & analyzed by me.

I hereby declare that project entitled "The impact of SAP (ERP) system in operations and total quality management" is authentic & I have put in my efforts meticulously to make this project to come up the expectations and pragmatically viable.

Date:

Place: INDORE

(KALPANA SUMAN)

#### **ACKNOWLEDGEMENT**

The duration of the project report was the one etched in my memory for the long time to come. I do have certain people to thank for it being a memorable experience.

I thank the Head of the Department Mrs. Jyoti Jayaswal who has been a source of inspiration for given me the opportunity to study on my project.

I would also like to thank **Assistant Prof. Jyoti Jayaswal** my guide who has been present as pillar of support and guidance throughout the project period. I am indeed indebted to him for the experience and information he shared with me. His suggestions and comments have made the report more valuable.

I would like to thank my family members, my friends and entire staff of MBA department for making the atmosphere amicable and make me feel at ease at the time of stress.

At last I am thankful to all those persons who help me directly and indirectly to cover the wide aspect of Research Project.

With Sincere Thanks

(KALPANA SUMAN)



**MBA** Department



A MAJOR RESEARCH PROJECT ON:

"A STUDY ON CONSUMER BUYING BEHAVIOR"

A Dissertation Submitted to

Devi Ahilya Vishwavidyalaya, Indore

Towards the partial fulfillment of requirement for the award of degree

Masters of business administration [full time] 2022-23

Guided By
Assistant Prof. Jyoti Jayaswal
Head of department

Submitted By
Diksha Sahu
Roll no.- 211890054
SVCE, MBA

# SWAMI VIVEKANAND COLLEGE OF ENGINEERING, INDORE

### **MBA Department**



#### A MAJOR RESEARCH PROJECT ON:

#### "A STUDY ON CONSUMER BUYING BEHAVIOR"

A Dissertation Submitted to

#### Devi Ahilya Vishwavidyalaya, Indore

Towards the partial fulfillment of requirement for the award of degree

Of

Masters of business administration [full time] 2022-23

Guided By Assistant Prof. Jyoti Jayaswal Head of department MBA'

**Submitted By** Diksha Sahu Roll no.- 211890054 SVCE, MBA

# SWAMI VIVEKANAND COLLEGE OF ENGINEERING, INDORE

**MBA** Department

### **CERTIFICATE**

This is to certify that the MRP entitled "A study on consumer buying behavior" has been accomplished by Ms. Diksha Sahu under my guidance and supervision.

This MRP is being submitted by her in the partial fulfillment of the requirement for the award of the degree Of Masters of business administration [full time] from Devi Ahilya Vishwavidyalaya, Indore

To the best of my knowledge and belief this work has not been submitted by her anywhere else for the reward of any degree or diploma without proper citation.

Project Guide

Ássistant prof. Jyoti Jayaswal

Head of Department (MBA)

External Examiner

Principal

Department of Master of Business Administration

Swami Vivekanand College of Engineering, Indore

## **DECLARATION**

I have tried my level best in making this project useful, pragmatic & successful. I have tried to provide the accurate information to the best of my knowledge. The data collected is primary, authentic & analyzed by me.

I hereby declare that project entitled "A study on consumer buying behavior" is authentic & I have put in my efforts meticulously to make this project to come up the expectations and pragmatically viable.

Date:

Place: INDORE

(DIKSHA SAHU)

# **ACKNOWLEDGEMENT**

The duration of the project report was the one etched in my memory for the long time to come. I do have certain people to thank for it being a memorable experience.

I thank the Head of the Department Mrs Jyoti Jayaswal who has been a source of inspiration for given me the opportunity to study on my project.

I would also like to thank Asistant Prof. Jyoti Jayaswal my guide who has been present as pillar of support and guidance throughout the project period. I am indeed indebted to him for the experience and information he shared with me. His suggestions and comments have made the report more valuable.

I would like to thank my family members, my friends and entire staff of MBA department for making the atmosphere amicable and make me feel at ease at the time of stress.

At last I am thankful to all those persons who help me directly and indirectly to cover the wide aspect of Research Project.

With Sincere Thanks

(DIKSHA SAHU)



"Major Research Project

On The Topic

### A STUDY ON CUSTOMER EXPECTATIONFROM ON-MARKETING WITH RESPECT TO FLIPKART.C

(Submitted towards the partial fulfillment of Master of B awarding by Devi Ahilya Vishwavidhayala, Ind

Session 2022-2023

**Project Guide** Prof. Jyoti Jayaswal Mam **SVCE MBA (INDORE)** 

SUBMITTED BY **Sumit Dudwa** Roll No.211890012 MBA (FT) 3<sup>rd</sup> Semester

# SWAMI VIVEKANAND COLLEGE OF ENGINEERING, INDORE

**MBA** Department



# "Major Research Project"

On The Topic

# A STUDY ON CUSTOMER EXPECTATIONFROM ON-LINE MARKETING WITH RESPECT TO FLIPKART.COM

(Submitted towards the partial fulfillment of Master of Business Administration awarding by Devi Ahilya Vishwavidhayala, Indore)

Session 2022-2023

**Project Guide** 

Prof. Jyoti Jayaswal Mam

**SVCE MBA (INDORE)** 

**SUBMITTED BY** 

Sumit Dudwa

Roll No.211890012

MBA (FT) 3<sup>rd</sup> Semester

## **DECLARATION**

I Sumit Dudwa here by declare that work which is being presented in the thesis entitled a STUDY ON CUSTOMER EXPECTATIONFROM ON-LINE MARKETING WITH RESPECT TO FLIPKART.COM in partial fulfillment of the requirement for the award Masters of Business Administration to Devi Ahilya Vishwavidyalaya, Indore (M.P.) is an authentic record of our own work carried out under the guidance of Prof. Joyti Jayaswal Mam

Place: Indore

Student Name

Date:

**Sumit Dudwa** 

am thankful to the university Devi Ahilya Vishwavidyalaya, Indore for giving me opportunity to convert ny theoretical knowledge into the practical skills through this project.

Any work of this magnitude requires input, efforts and encouragement of people from all sides. In ompiling this project, I have been fortunate enough to get active and kind cooperation from many people vithout which my endeavors wouldn't have been a success. The project work has been made successful y the cumbersome effort of the faculties.

express my profound sense of gratitude to Principal **Dr. Pradeep Patil** Swami Vivekanand College on ngineering, Indo. e (M.P.)

would like to express my deep gratitude to my project guide **Prof. Joyti Jayaswal Mam** under whose iluable guidance, for encouraging me regularly and providing me each and every facility. I was able to tecute my project smoothly.

ast but not the least; I am grateful to My Parents and family members and colleagues, for their continuous pport and encouragement in success of this project.

Thank You

**Student Name** 

Sumit Dudwa

Roll No.211890012 SVCE, MBA

### "Earthen Dam"



### 2022-2023 A Dissertation Submitted to Rajiv Gandhi Proudyogiki Vishwavidyalaya, Bhopaltowards the partial fulfillment of the degree of

# **Bachelor of Technology** [Civil Engineering]

Supervised by:

Ms. Sakshi Thora **Assistant Professor** S.V.C.E. Indore

Submitted by:

Goutam Padiyar: 0822CE191015

Vijay Tawar

: 0822CE191032

Surendra Singh : 0822CE191031

Devendra Malviya: 0822CE203D03

DEPAR TMENT OF CIVIL ENGINEERING SWAMI VIVEKANAND COLLEGE OF ENGINEERING, INDORE (MP.)



### RECOMMENDATION

We are pleased to recommend that the dissertation work entitled "Earthen Darn" submitted by Goutam Padiyar , Vijay Tawar, Surendra Singh and Devendra Malviya may be accepted in partialfulfillment of the degree of Bachclor of Technology [CivilEngineering] of Rajiv Gandhi Proudyogiki Vishwavidyalaya, Bhopal (MP.) during the session 2022-2023.

Ms. Sakshi Thora Assistant Professor. S.V.C.E. Indore

r. Goutam Varma **Assistant Professor & HOD** CED-S.V.C.E. Indore

Forwarded by: Dr. Pradeep Patil (Principal) S.V.C.E., Indore



### **CERTIFICATE**

This is to certify that the dissertation entitled "Earthen Dam" submitted by Goutam Padiyar, Vijay Tawar, Surendra Singh and Devendra Malviya is accepted in partial fulfillment of the degree of Bachelor of Technology, CivilEngineering of Rajiv Gandhi Proudyogiki Vishwavidyalaya,Bhopal during the session 2022-2023.

Internal Examiner

Date: 10 05 23

External Examiner

Date:

### DECLARATION

l. Goutam Padiyar (0822CE191015), Vijay Tawar (0822CE191032), Surendra Singh (0822CE191031) and Devendra Malviya (0822CE203D03) student of Bachelor of Engineering, (Civil Engineering). CED declare that the dissertation Earthen Dam is my own work conducted under the supervision of Ms. Sakshi Thora, Designation, Civil Engineering Department, S.V.C.E. Indore (M.P.).

I further declare that to the best of my knowledge this dissertation work does not contain any part of any work which has been submitted for the award of any degree or any other work either in this University or in any other University/websites without proper citation.

Signature of the candidate:

Name of the candidates:

Goutam Padiyar (0822CE191015)

Vijay Tawar (0822CE191032)

Surendra Singh (0822CE191031)

Devendra Malviya (0822CE203D03)

I would like to express my deepest gratitude and appreciation to my guide Ms. Sakshi Thora Assistant Professor, Civil Engineering Department, S.V.C.E., Indore, for his guidance and support during this dissertation project. His support and inspiring suggestions have been precious to me.

I would like to thank and acknowledge HOD Mr. Goutam Varma, Assistant Professor, Civil Engineering Department, S.V.C.E., Indore for their valuable cooperation and guidance during the project.

I would also like to thank all the staff members for their generous help in various ways during my project work.

It is a great pleasure for me to acknowledge and express my gratitude to my friends for their understanding and unstinted support.

- Goutam Padiyar
- Vijay Tawar
- Surendra Singh
- Davendra Malviya

# DRINKING WATER TREATMENT PLANT



# 2022-2023 A Dissertation Submitted to Rajiv Gandhi Proudyogiki Vishwavidyalaya, Bhopal towards the partial fulfillment of the degree of

# Bachelor of Technology [Civil Engineering]

Supervised by: Miss. Sakshi Thora Ma'am Assistant Professor,CED Submitted by:
Gaurav Sapkale (0822CE203D06)
Dhananjay Nagar (0822CE203D04)
Ankita Waskale (0822CE203D02)
Navneet Vyas (0822CE203D09)
Jay Vyas (0822CE203D07)
S.V.C.E., Indore

S.V.C.E., Indore

DEPARTMENT OF CIVIL ENGINEERING SWAMI VIVEKANAND COLLEGE OF ENGINEERING, INDORE (M.P.)

A Private Institute Affiliated to RGPV, Bhopal



2022-2023

## **RECOMMENDATION**

We are pleased to recommend that the dissertation work entitled "Drinking Water Treatment Plant" submitted by Gaurav Sapkale, Dhananjay Nagar, Ankita Waskale, Jay Vyas, Navneet Vyas may be accepted in partial fulfillment of the degree of Bachelor of Technology [Civil Engineering] of Rajiv Gandhi Proudyogiki Vishwavidyalaya, Bhopal (M.P.) during the session 2022-2023.

Miss. Sakshi Thora Ma'am Assistant Professor, CED- S.V.C.E., Indore Mr. Goutam Varma Assistant Professor & HOD CED- S.V.C.E., Indore

Forwarded by: Principal S.V.C.E., Indore

A Private Institute Affiliated to RGPV, Bhopal



### **CERTIFICATE**

This is to certify that the dissertation entitled "Drinking Water Treatment Plant" submitted by Gaurav Sapkale, Dhananjay Nagar, Ankita Waskale, Jay Vyas, Navneet Vyas is accepted in partial fulfillment of the degree of Bachelor of Technology, Civil Engineering of Rajiv Gandhi Proudyogiki Vishwavidyalaya, Bhopal during the session 2022-2023.

Internal Examiner
Date: 24-04-2023

External Examiner Date: 10-05-2023

## **DECLARATION**

- I, Gaurav Sapkale, Dhananjay Nagar, Ankita Waskale, Jay Vyas, Navneet Vyas student's of Bachelor of Engineering
- , (Civil Engineering), CED declare that the dissertation Drinking Water Treatment Plant is my own work conducted under the supervision of Miss Sakshi Thora Ma'am, Designation, Civil Engineering Department, S.V.C.E. Indore (M.P.).

I further declare that to the best of my knowledge this dissertation work does not contain any part of any work which has been submitted for the award of any degree or any other work either in this University or in any other University/ websites without proper citation.

Signature of the	candidate:	
Name of the car	ndidate:	
Enrollment No.:	0822CE2031	006
	0822CE203I	004

0822CE203D07

0822CE203D02

0822CE203D09

I would like to express my deepest gratitude and appreciation to my guide Miss Sakshi Thora, Designation, Civil Engineering Department, S.V.C.E., Indore, for his guidance and support during this dissertation project. His support and inspiring suggestions have been precious to me.

I would like to thank and acknowledge HOD Mr. Goutam Varma, Assistant Professor, Civil Engineering Department, S.V.C.E., Indore for their valuable cooperation and guidance during the project.

I would also like to thank all the staff members for their generous help in various ways during my project work.

It is a great pleasure for me to acknowledge and express my gratitude to my friends for their understanding and unstinted support.

- Gaurav Sapkale Dhananjay Nagar Ankita Waskale Jay Vyas Navneet Vyas

# "Comparative Study of the Concrete Prepared by Partial Replacement of Sand with Mix Plastic Waste"



# . 2023-2024 A Dissertation Submitted to Rajiv Gandhi Proudyogiki Vishwavidyalaya, Bhopaltowards the partial fulfillment of the degree of

# **Bachelor of Engineering**

[Civil Engineering]

### Supervised by:

### Submitted by:

Mr. Sharad Chaurasia	Deepak Tiwari	(0822CE191009)
Assistant Professor, CED	Deepak Prajapat	(0822CE191011)
S.V.C.E. Indore	Dhairya Kathore	(0822CE191014)
	Manita Sharma	(0822CE203D08)

Department of Civil Engineering Swami Vivekanand College of Engineering, Indore (M.P.), India

# Swami Vivekanand College of Engineering, Indore (M.P.), India Department of Civil Engineering



# 2023-2024 RECOMMENDATION

We are pleased to recommend that the dissertation work entitled "Compressive Study of the Concrete Prepared by Partial Replacement of Sand with Mix Plastic Waste" submitted by Deepak Tiwari (0822CE191009), Deepak Prajapat (0822CE191011), Dhairya Kathore (0822CE191014), Manita Sharma (0822CE203D08) may be accepted in partial fulfillment of the degree of Bachelor of Engineering (Civil Engineering) of Rajiv Gandhi Proudyogiki Vishwavidyalaya, Bhopal (M.P.) during the session 2023-2024.

Forwarded by

Principal S.V.C.E., Indore

Mr. Sharad Chaurasia Ass. Prof., CED SVCE, Indore Mr. Goutam Varma Ass. Prof. & HOD, CED SVCE, Indore

# Swami Vivekanand College of Engineering, Indore (M.P.), India Department of Civil Engineering



2023-2024

# **CERTIFICATE**

This is to certify that the dissertation entitled "Comparative study of the Concrete Prepared by Partial Replacement of Sand with Mix Plastic Waste" submitted by Deepak Tiwari (0822CE191009), Deepak Prajapat (0822CE191011), Dhairya Kathore (0822CE191014), Manita Sharma (0822CE203D08) is accepted in partial fulfillment of the degree of the Bachelor of Engineering, CIVIL Engineering of Rajiv Gandhi Proudyogiki Vishwavidyalaya, Bhopal during the session 2023-2024.

Internal Examiner:

Date: 10/05/23

External Examiner:

Date:

# **DECLARATION**

We, Deepak Tiwari (0822CE191009), Deepak Prajapat (0822CE191011), Dhairya Kathore (0822CE191014), Manita Sharma (0822CE203D08) student of Bachelor of Engineering, (Civil Engineering), CED declare that the "Comparative Study of the Concrete Prepared by Partial Replacement of Sand with Mix Plastic Waste" is my own work conducted under the supervision of Mr. Sharad Chaurasia Asst .Prof., Civil Engineering Department, S.V.C.E. Indore.

I further declare that to the best of my knowledge this dissertation work does not contain any part of any work which has been submitted for the award of any degree or any other work either in this University or in any other University/ websites without proper citation.

Name of the candidate:

Deepak Tiwari (0822CE191009) Deepak Prajapat (0822CE191011) Dhairya Kathore (0822CE191014) Manita Sharma (0822CE203D08) Signature of the candidates:

Deepele

We would like to express my deepest gratitude and appreciation to my guide Mr. Sharad Chaurasia Asst.Prof., Civil Engineering Department, SVCE, Indore, for his guidance and support during this dissertation project. His support and inspiring suggestions have been precious to me.

We would like to thank and acknowledge Civil Engineering Department, S.V.C.E., Indore for their valuable cooperation and guidance during the project.

We would also like to thank all the staff members for their generous help in variousways during my project work.

It is a great pleasure for me to acknowledge and express my gratitude to my friends for their understanding and unstinted support.

#### Name of the Students:

Deepak Tiwari (0822CE191009) Deepak Prajapat (0822CE191011) Dhairya Kathore (0822CE191014) Manita Sharma (0822CE203D08)

# "EXPERIMENTAL STUDY ON BEHAVIOUR OF BLACK COTTON SOIL USING WOOD ASH AS A STABILIZER"



2022-2023

A Dissertation Submitted to Rajiv Gandhi Proudyogiki Vishwavidyalaya, Bhopal towards the partial fulfillment of the degree of

# **Bachelor of Technology**[Civil Engineering]

Supervised by:

Mrs. Sakshi Thora Assistant Professor, CED Submitted by:

Aman Lowanshi(0822CE191003)
Arun yadav (0822CE191005)
Ayush jaiswal(0822CE191006)
Kamal Bhuriya (0822CE191018)
Mohd. Yusuf khan(0822CE191020)
Rahul yadav (0822CE191024)
Rishabh malviya (0822CE191026)

DEPARTMENT OF CIVIL ENGINEERING SWAMI VIVEKANAND COLLEGE OF ENGINEERING, INDORE (M.P.)

# "EXPERIMENTAL STUDY ON BEHAVIOUR OF BLACK COTTON SOIL USING WOOD ASH AS A STABILIZER"



# 2022-2023 A Dissertation Submitted to Rajiv Gandhi Proudyogiki Vishwavidyalaya, Bhopal towards the partial fulfillment of the degree of

# Bachelor of Technology [Civil Engineering]

Supervised by:

Mrs. Sakshi Thora Assistant Professor, CED Submitted by:

Aman Lowanshi(0822CE191003) Arun yadav (0822CE191005) Ayush jaiswal(0822CE191006) Kamal Bhuriya (0822CE191018) Mohd. Yusuf khan(0822CE191020) Rahul yadav (0822CE191024) Rishabh malviya (0822CE191026)

DEPARTMENT OF CIVIL ENGINEERING SWAMI VIVEKANAND COLLEGE OF ENGINEERING, INDORE (M.P.)

A Private Institute Affiliated to RGPV, Bhopal



2022-2023

# **RECOMMENDATION**

We are pleased to recommend that the dissertation work entitled "EXPERIMENTAL STUDY ON BEHAVIOUR OF BLACK COTTON SOIL USING WOOD ASH AS A STABILIZER" submitted by Aman Lowanshi(0822CE191003) ,Arun Yadav (0822CE191005) ,Ayush Jaiswal(0822CE191006) Bhuriya(0822CE191018), Mohd. Yusuf khan(0822CE191020) Rahul Yadav(0822CE191024), Rishabh Malviya (0822CE191026)

may be accepted in partialfulfillment of the degree of Bachelor Technology [Civil Engineering] of Rajiv Gandhi Proudyogiki Vishwavidyalaya, Bhopal (M.P.) during the session 2022-2023.

Mrs Sakshi Thora Assistant Professor, CED- S.V.C.E., Indore

Mr. Goutam Varma **Assistant Professor & HOD** CED- S.V.C.E., Indore

Forwarded by: Principal S.V.C.E., Indore

A Private Institute
Affiliated to RGPV, Bhopal



# <u>CERTIFICATE</u>

This is to certify that the dissertation entitled "EXPERIMENTAL STUDY ON BEHAVIOUR OF BLACK COTTON SOIL USING WOOD ASH AS A STABILIZER" submitted by Aman Lowanshi(0822CE191003), Arun Yadav (0822CE191005), Ayush Jaiswal(0822CE191006) Kamal Bhuriya (0822CE191018), Mohd. Yusuf khan(0822CE191020), Rahul Yadav (0822CE191024) Rishabh Malviya (0822CE191026) is accepted in partial fulfillment of the degree of Bachelor of Technology, Civil Engineering of Rajiv Gandhi Proudyogiki Vishwavidyalaya, Bhopal during the session 2022-2023.

Internal Examiner

External Examiner

Date:

# DECLARATION

I, Aman Lowanshi(0822CE191003), Arun Yadav (0822CE191005), Ayush jaiswal(0822CE191006) Kamal Bhuriya (0822CE191018), Mohd. Yusuf khan(0822CE191020), Rahul Yadav (0822CE191024) Rishabh Malviya (0822CE191026), student of Bachelor of Engineering

, (Civil Engineering), CED declare that the dissertation EXPERIMENTAL STUDY ON BEHAVIOUR OF BLACK COTTON SOIL USING WOOD ASH AS A STABILIZER is my own work conducted under the supervision of Mrs. Sakshi Thora, Designation, Civil Engineering Department, S.V.C.E. Indore (M.P.).

I further declare that to the best of my knowledge this dissertation work does not contain any part of any work which has been submitted for the award of any degree or any other work either in this University or in any other University/ websites without proper citation.

Signature of the candidate:

Name of the candidate:

Aman Lowanshi(0822CE191003)

Arun yadav (0822CE191005)

Ayush jaiswal(0822CE191006)

Kamal Bhuriya (0822CE191018)

Mohd. Yusuf khan(0822CE191020)

Rahul yadav (0822CE191024)

Rishabh malviya (0822CE191026)

I would like to express my deepest gratitude and appreciation to my guide Mrs. Sakshi Thora, Designation, Civil Engineering Department, S.V.C.E., Indore, for his guidance and support during this dissertation project .His support and inspiring suggestions have been precious to me.

I would like to thank and acknowledge HOD Mr. Goutam Varma, Assistant Professor, Civil Engineering Department, S.V.C.E., Indore for their valuable cooperation and guidance during the project.

I would also like to thank all the staff members for their generous help in various ways during my project work.

It is a great pleasure for me to acknowledge and express my gratitude to my friends for their understanding and unstinted support.

Aman Lowanshi(0822CE191003)
Arun Yadav (0822CE191005)
Ayush Jaiswal(0822CE191006)
Kamal Bhuriya (0822CE191018)
Mohd. Yusuf khan(0822CE191020)
Rahul Yadav (0822CE191024)
Rishabh Malviya (0822CE191026)

### DRINKING WATER TREATMENT PLANT



# 2022-2023 A Dissertation Submitted to Rajiv Gandhi Proudyogiki Vishwavidyalaya, Bhopal towards the partial fulfillment of the degree of

# Bachelor of Technology [Civil Engineering]

Supervised by: Submitted by:

Miss. Sakshi Thora Ma'am Gaurav Sapkale (0822CE203D06)
Assistant Professor, CED Dhananjay Nagar (0822CE203D04)

Ankita Waskale (0822CE203D02)

Navneet Vyas (0822CE203D09) Jay Vyas (0822CE203D07)

S.V.C.E., Indore S.V.C.E., Indore

DEPARTMENT OF CIVIL ENGINEERING SWAMI VIVEKANAND COLLEGE OF ENGINEERING, INDORE (M.P.)

A Private Institute Affiliated to RGPV, Bhopal



2022-2023

# **RECOMMENDATION**

We are pleased to recommend that the dissertation work entitled "Drinking Water Treatment Plant" submitted by Gaurav Sapkale, Dhananjay Nagar, Ankita Waskale, Jay Vyas, Navneet Vyas may be accepted in partial fulfillment of the degree of Bachelor of Technology [Civil Engineering] of Rajiv Gandhi Proudyogiki Vishwavidyalaya, Bhopal (M.P.) during the session 2022-2023.

Miss. Sakshi Thora Ma'am Assistant Professor, CED-S.V.C.E., Indore

Mr. Goutam Varma **Assistant Professor & HOD** CED-S.V.C.E., Indore

Forwarded by: Principal S.V.C.E., Indore

A Private Institute Affiliated to RGPV, Bhopal



# **CERTIFICATE**

This is to certify that the dissertation entitled "Drinking Water Treatment Plant" submitted by Gaurav Sapkale, Dhananjay Nagar, Ankita Waskale, Jay Vyas, Navneet Vyas is accepted in partial fulfillment of the degree of Bachelor of Technology, Civil Engineering of Rajiv Gandhi Proudyogiki Vishwavidyalaya, Bhopal during the session 2022-2023.

Internal Examiner Date: 24-04-2023 External Examiner
Date: 10-05-2023

I would like to express my deepest gratitude and appreciation to my guide Miss Sakshi Thora, Designation, Civil Engineering Department, S.V.C.E., Indore, for his guidance and support during this dissertation project. His support and inspiring suggestions have been precious to me.

I would like to thank and acknowledge HOD Mr. Goutam Varma, Assistant Professor, Civil Engineering Department, S.V.C.E., Indore for their valuable cooperation and guidance during the project.

I would also like to thank all the staff members for their generous help in various ways during my project work.

It is a great pleasure for me to acknowledge and express my gratitude to my friends for their understanding and unstinted support.

- Gaurav Sapkale Dhananjay Nagar Ankita Waskale Jay Vyas Navneet Vyas

# PLANNING AND DESIGNING OF G+1 RESIDENTIAL BUILDING



2022-2023

A Dissertation Submitted to Rajiv Gandhi Proudyogiki Vishwavidyalaya, Bhopal towards the partial fulfillment of the degree of

# **Bachelor of Engineering**[Civil Engineering]

Supervised by:

Submitted by:

Mr. Mahesh Patidar Assistant Professor CED-S.V.C.E. ,Indore Harsha Makraiya(0822CE201008) Sarika Kannoj(0822CE201021) Sneha Gora(0822CE201023) Suraj Chouhan(0822CE201025)

DEPARTMENT OF CIVIL ENGINEERING SWAMI VIVEKANAND COLLEGE OF ENGINEERING,INDORE (M.P.)

A Private Institute Affiliated to RGPV, Bhopal



2022-2023

### **RECOMMENDATION**

We are pleased to recommend that the dissertation work entitled "Planning and Designing of G+1 Residential Building" submitted by Harsha Makraiya(0822CE201008), Sarika Gora(0822CE201023), Kannoj(0822CE201021), Sneha Suraj Chouhan (0822CE201025) may be accepted in partial fulfillment of the degree of Bachelor of Engineering [Civil Engineering of Rajiv Gandhi Proudyogiki Vishwavidyalaya, Bhopal (M.P.) during the session 2022-2023.

Supervised by:

Mr. Mahesh Patidar **Assistant Professor** CED-S.V.C.E. ,Indore Mr. Goutam Varma **Assistant Professor** CED-S.V.C.E.,Indore

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# **CERTIFICATE**

This is to certify that the dissertation entitled "Planning and Designing Of G+1 Residential Building" submitted by Harsha Makraiya(0822CE201008), Sarika Kannoj(0822CE201021), Sneha Gora(0822CE201023), Suraj Chouhan(0822CE201025) is accepted in partial fulfillment of the degree of Bachelor of Engineering, Civil Engineering of Rajiv Gandhi Proudyogiki Vishwavidyalaya, Bhopal during the session 2020-2022.

Internal Examiner

Date: 23 05 23

External Examiner Date:

# **DECLARATION**

we, Harsha Makraiya(0822CE201008), Sarika Kannoj(0822CE201021), Sneha Gora(0822CE201023), Suraj Chouhan(0822CE201025) student of Bachelor of Engineering, (Civil Engineering), CED declare that the dissertation Planning and Designing Of G+1 Residential Building is our own work conducted under the supervision of Mr. Mahesh Patidar, Assistant Professor, Civil Engineering Department, S.V.C.E. Indore (M.P.).

we further declare that to the best of our knowledge this dissertation work does not contain any part of any work which has been submitted for the award of any degree or any other work either in this University or in any other University/ websites without proper citation.

Signature of the candidates: Swika Swika Hoord Mala.

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- Harsha Makraiya Sarika Kannoj Sneha Gora Suraj Chouhan